### **ORDINANCE NO. 535**

AN ORDINANCE APPROVING A SPECIFIC USE PERMIT FOR THE USE "FOOD AND BEVERAGE SERVICES (WITH DRIVE-THROUGH)" WITHIN THE NEIGHBORHOOD MIXED-USE ZONING (MU-N) DISTRICT FOR THE PROPERTY LOCATED AT 14211 WEST STATE HIGHWAY 71, BEE CAVE, TEXAS; DESCRIBED AS LOT 1 OF THE 0.997 ACRES W HWY 71 COMMERCIAL TRACT RECORDED IN DOCUMENT NO. 202300149, OPRTC; PROVIDING FOR CERTAIN CONDITIONS; PROVIDING FOR PENALTY OF A FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000.00) FOR EACH OFFENSE; PROVIDING FOR FINDINGS OF FACT, SEVERABILITY, EFFECTIVE DATE AND PROPER NOTICE AND MEETING

WHEREAS, an application has been submitted for a specific use permit for the use "Food and Beverage Services (with drive-through) within the Neighborhood Mixed-Use Zoning district for a 0.997-acre lot described as Lot 1 of the 0.997 Acres W Hwy 71 Commercial Tract, as recorded in Document No. 202300149, OPRTC, and which property is located at 14911 W State Highway 71, Bee Cave, Texas (the "Property"); and

**WHEREAS**, the use of the property for a "Food and Beverage Service (with drivethrough) is a specific use permit in the Neighborhood Mixed-Use (MU-N) zoning district; and

**WHEREAS**, the property owner has submitted a Site Plan depicting the proposed use of the Property as Food and Beverage Services (with drive-through) and the terms and conditions of this Ordinance are sufficient to make this proposed use compatible with other Neighborhood Mixed-Use districts and adjacent property uses in the vicinity; and

**WHEREAS**, the notice as required by the City's Zoning Ordinance has been published in the official newspaper and given to adjacent property owners; and

**WHEREAS**, the Planning and Zoning Commission and the City Council has each conducted Public Hearings on the Application for a Specific Use Permit wherein public comment was received and considered on the Application; and

**WHEREAS**, the City Council finds that the use of the Property as depicted in the Site Plan, Exhibit "A", and in accordance with this Ordinance as Food and Beverage Services (with drive-through) is an appropriate use for the Property.

# NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BEE CAVE, TEXAS:

**SECTION 1.** Findings of Fact. All of the above premises are hereby found to be true and correct legislative and factual findings of the City and are hereby approved and

incorporated into the body of this Ordinance as if copied in their entirety.

- **SECTION 2.** The City Council finds that the information submitted in the Application for a Specific Use Permit submitted by Applicant meets the requirements of the City of Bee Cave Unified Development Code for the Property and depicted on the Site Plan attached hereto and incorporated herein as Exhibit "A".
- **SECTION 3.** <u>Uses.</u> A Specific Use Permit is hereby granted, subject to the conditions listed in Section 5 herein described, to authorize Food and Beverage Services (with drive-through) uses on the Property as depicted in Exhibit "A" and in conjunction with any other permitted uses authorized in the Neighborhood Mixed-Use Zoning district.
- **SECTION 4.** Site Plan. The Site Plan attached hereto as Exhibit "A" depicting the Food and Beverage Services (with drive-through) uses are all hereby approved contingent upon the property owner meeting the conditions contained within Section 5.
- **SECTION 5.** Specific Use Permit. The City Council hereby approves a Specific Use Permit to the property upon the following terms and conditions:
  - 1. The Property Owner shall not commence development until all necessary permits and approvals are obtained as required by the City of Bee Cave Ordinances.
  - 2. The Specific Use Permit authorizes development of the subject Property only as represented in the Site Plan described in Exhibit "A," attached hereto, and only to the extent authorized herein. If portions of the development of the subject Property requested are not depicted in Exhibit "A", then that portion of development is specifically denied.
  - 3. Any amendments to the Exhibit "A" that involve any of the following will result in a new Specific Use Permit (SUP) being submitted:
    - a. An increase in impervious coverage
    - b. A change in traffic flow or a change to the drive-through queuing plan
    - c. Alterations to the drive-through function or emergency lane function
    - d. Any new waiver requests
  - 4. The queuing plan submitted as Exhibit "B" is approved as part of the Specific Use Permit.
  - 5. Due to the close proximity of the Refuse area to the Drive-through queuing lane, the applicant has agreed that Texas Disposal Systems will service the area after the peak hours, or during designated non-peak hours, which are defined as after 10:00 AM on each service day. Should there be any changes to these service hours that

affect the drive-through queuing process, the applicant will be obligated to submit an amended site plan and queuing plan for review.

6. The emergency lane must remain exclusively designated for emergency use and cannot be repurposed for restaurant services or other non-emergency uses.

**SECTION. 6.** Penalty. That any person, firm or corporation violating any of the provisions of this Ordinance or the Unified Development Code, of the Code of Ordinances, as amended hereby, shall be deemed guilty of a misdemeanor and, upon conviction in the municipal court of the City of Bee Cave, Texas, shall be punished by a fine not to exceed the sum of two thousand dollars (\$2,000.00) for each offense, and each and every day of any such violation shall be deemed to constitute a separate offense, in accordance with Section 1.1.14 of the City's Unified Development Code.

**SECTION 7.** <u>Severability.</u> Should any sentence, paragraph, subdivision, clause, phrase, or section of this Ordinance be adjusted or held to be unconstitutional, illegal, or invalid, the same shall not affect the validity of this Ordinance in whole or any part or provision thereof, other than the part so declared to be invalid, illegal or unconstitutional, and shall not affect the validity of the City's Zoning Ordinance or Map as a whole.

**SECTION 8.** <u>Proper Notice and Meeting.</u> It is hereby officially found and determined that the meeting at which this Ordinance was adopted was open to the public and that public notice of the time, place and purpose of said meeting was given as required by the Open Meetings Act, Chapter 551 of the Texas Government Code.

and after its passage and publication as requ		immediately froi
PASSED AND APPROVED this _	day of APPROVED:	, 2024.
	Kara King, Mayor City of Bee Cave	

ATTEST:

Ordinance 535 Page **3** of **48** 

City of Bee Cave, Texas
[SEAL]
APPROVED AS TO FORM:
City Attorney Ryan Henry, Law Offices of Ryan Henry, PLLO

# EXHIBIT "A" SITE PLAN

ENGINEER:

BEE CAVE HOLDINGS LLC

MILLER GRAY, LLC

3001 RANCH ROAD 620, STE 324 AUSTIN, TX 78738

INVESTOOR DEVELOPMENT DEVELOPER: 3001 RANCH ROAD 620, STE 324 **AUSTIN, TX 78738** 

(512) 750-7272

(512) 750-7272

ARCHITECT: **ENVIROPLAN ARCHITECTS & PLANNERS** 

7320 N MOPAC EXPY, STE. 203 4942 US 290 WEST AUSTIN, TEXAS 78735 AUSTIN, TEXAS 78731 (512) 861-5300 (512) 476-0622

LANDSCAPE

ARCHITECT:

SURVEYOR: SURVTEX LLC 600 W. WHITESTONE BLVD. CEDAR PARK, TEXAS 78613 HITCHCOCK DESIGN GROUP 1601 RIO GRANDE STREET, STE 450

AUSTIN, TEXAS 78701 (512) 249-8875 (512) 770-4503

STRUCTURAL ATS ENGINEERS, INSPECTORS AND LIGHTING SURVEYORS

> 4910 HIGHWAY 290 WEST AUSTIN, TEXAS 78735 (512) 328-6995 EXT. 154

SPECTRUM LIGHTING 8868 RESEARCH BLVD, STE 104

AUSTIN TEXAS 78758 (512) 442-0661

#### ZONING/USE

ENGINEER:

JURISDICTION BEE CAVE

ZONING: NEIGHBORHOOD MIXED-USE DISTRICT

LAND USE: COMMERCIAL ACREAGE: 0.997 19,560 SF (45%) TOTAL IMPERVIOUS COVER: BUILDING IMPERVIOUS COVER: 2344 SF (5%) TRAVIS COUNTY TAX ID TRACT #: 0118770419

#### LEGAL DESCRIPTION

LOT 1 BLK A OF THE MINOR PLAT OF 0.997 ACRES .564 AC RECORDED IN DOCUMENT 202300149, TRAVIS COUNTY,

#### **FUTURE LAND USE**

RETAIL COFFEE SHOP

TOPOGRAPHY SURVEY PREPARED BY SURVTEX LLC, DATED 5/16/2022

### BENCHMARK

BM1 MAG NAIL WITH ALUMINUM WASHER STAMPED "SURVTEX"

ELEV: 940.14

#### WATERSHED

WATERSHED: LITTLE BARTON

#### **EDWARDS AQUIFER**

THIS PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE AS DEFINED BY CITY OF TCEQ.

### **VARIANCE REQUESTS**

1. SECTION 7.3: USE OF PAVEMENT TYPE REQUIREMENTS

NO PORTION OF THE SUBJECT PROPERTY IS WITHIN THE 100-YEAR FLOOD PLAIN AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NO. 48453C0415J, TRAVIS COUNTY, TEXAS, DATED JANUARY 22, 2020.

CONSTRUCTION HOURS ARE BETWEEN 7:00 AM TO 7:00 PM

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF BEE CAVE MUST RELY UPON THE ADEQUACY OF THE WORK OF THI

DESIGN ENGINEER.
THIS SITE IS SUBJECT TO A RESTRICTIVE COVENANT AND DRAINAGE EASEMENT RECORDED AS DOCUMENT NO 202403935 WITH THE TRAVIS COUNTY OFFICE OF PUBLIC RECORDS

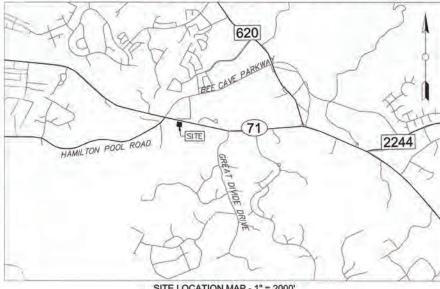
### REVISION/CORRECTION

REVISION NO.	DESCRIPTION	SHEETS REVISED	APPROVAL	
			1	

# SITE DEVELOPMENT PLAN AND NPS POLLUTION CONTROL PLAN FOR

# STARBUCKS BEE CAVE

14211 STATE HWY 71 BEE CAVE, TEXAS 78738



SITE LOCATION MAP - 1" = 2000' WTCPUA 71 WATER SYSTEM GRID: I-10 PRESSURE PLANE - 1280 HGL WTCPUA WASTEWATER SYSTEM GRID: D-5 MAPSCO: 549R & 549V

OFFICIAL DATE OF SUBMISSION: 7/26/23

SUBMITTED BY:

3/15/2024

Consulting · Engineering · Infrastructure TBPELS FIRM REG NO. F-16302

L.J. TRAVIS WILSON, P.E., CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE. ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL APPROVAL BY THE CITY OF BEE CAVE. THE DRAWINGS, PLANS, AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION COMPLY WITH THE APPLICATION TECHNICAL CODES , RULES, AND REGULATIONS, I DO CERTIFY THAT THE ENGINEERING WORK BEING SUBMITTED HEREIN COMPLIES WITH ALL PROVISIONS OF THE TEXAS ENGINEERING PRACTICE ACT.

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

#### TRAVIS COUNTY ESD NO. 6

DESIGN STANDARDS	2015 IFC WITH LOCAL AMENDMENTS			
CONSTRUCTION CLASSIFICATION	VB			
OCCUPANCY CLASSIFICATION	A-2			
BUILDING AREA	2,344 SF			
BUILDING HEIGHT IN FEET	23'-0"			
BUILDING HEIGHT IN STORIES	1			
HIGH-RISE	NO			
AUTOMATIC FIRE SPRINKLER SYSTEM	NO			
REQUIRED FIRE FLOW @ 20 PSI	1,500 GPM			
AVAILABLE FIRE FLOW @ 20 PSI	1,500 GPM			

NO.	TITLE	NO.	TITLE
1	COVER SHEET	22	STANDARD DETAILS 3 OF 10
2	FINAL PLAT SHEET 1 OF 2	23	STANDARD DETAILS 4 OF 10
3	FINAL PLAT SHEET 2 OF 2	24	STANDARD DETAILS 5 OF 10
4	CITY OF BEE CAVE NOTES 1 OF 2	25	STANDARD DETAILS 6 OF 10
5	CITY OF BEE CAVE NOTES 2 OF 2	26	STANDARD DETAILS 7 OF 10
6	WTCPUA NOTES 1 OF 2	27	STANDARD DETAILS 8 OF 10
7	WTCPUA NOTES 2 OF 2	28	STANDARD DETAILS 9 OF 10
8	EXISTING CONDITIONS AND DEMOLITION PLAN	29	STANDARD DETAILS 10 OF 10
9	DETENTION DRAINAGE AREA MAPS	30	RETAINING WALL DETAILS
10	WATER QUALITY DRAINAGE AREA MAPS & CALCS	31	DUMPSTER DETAIL
11	EROSION & SEDIMENTATION CONTROL PLAN	32	FLOOR PLAN
12	SITE & DIMENSION CONTROL PLAN	33	BUILDING ELEVATION VIEWS
13	FIRE CONTROL PLAN	34	ARCHITECTURAL SITE PLAN
14	OVERALL GRADING & STORM DRAIN PLAN	35	ELECTRICAL SITE LIGHTING PHOTOMETRIC PLAN
15	DETENTION POND & RAIN GARDEN PLAN	36	LANDSCAPE GENERAL NOTES
16	DETENTION POND & RAIN GARDEN SECTIONS	37	EXISTING TREE PLAN
17	UTILITY PLAN	38	LANDSCAPE PLAN
18	WWL 'A' PLAN & PROFILE	39	LANDSCAPE PLAN - RAIN GARDEN
19	WL'A' PLAN & PROFILE	40	PLANTING DETAILS
20	STANDARD DETAILS 1 OF 10	41	PLANTING NOTES & TABLES

## **PUBLIC WATER & WASTEWATER IMPROVEMENTS - QUANTITIES**

1.	12 LF	PIPE, 8-INCH DIA., CL 350 DI	7,	2	12-INCH GATE VALVE
2.	23 LF	PIPE, 2-INCH DIA., HDPE	8.	40 LF	MECHANICAL RESTRAINTS FOR 12-INCH WL
3.	1	8-INCH GATE VALVE	9.	160 LF	16-INCH STEEL ENCASEMENT
4/	1	1.5-INCH WATER METER	10.	1	48"-INCH DIA DROP MH
5.	1	8-INCH X 2-INCH REDUCER	11.	160 LF	PIPE, 8-INCH, DIA., PVC
6.	1	12-INCH X 8-INCH CUT-IN-TEE	12.	1.	FIRE HYDRANT ASSEMBLY

CITY OF BEE CAVE APPROVAL DATI

STANDARD DETAILS 2 OF 10

REVIEWED BY:	
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CITY OF BEE CAVE

## Tricia S, Tichenor-Altamirano, PE Date: 2024.03.26 18:39:16-05'00'

WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY DATE

LAKE TRAVIS FIRE AND RESCUE

TXDOT DRIVEWAY PERMIT NUMBER

CITY OF BEE CAVE SITE AND NPS NUMBER

#### WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY (WTCPUA) NOTES:

- 1. THE WEST TRAVIS COUNTY PUBLIC UTILITY AGENCY IS THE RETAIL WATER AND WASTEWATER PROVIDER.
- 2. BUILDING 1: 1.5" METER NO: \_\_\_\_\_ FOR DOMESTIC PURPOSES ONLY.
- 3. WTCPUA DOES NOT GUARANTEE FIRE FLOW.
- 4. A WTCPUA REPRESENTATIVE MUST BE PRESENT AT THE TIME ON CONNECTION TO THE EXISTING SYSTEM.
- 5. ALL WATER AND WASTEWATER INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF AUSTIN WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS AND WITH MATERIALS FROM THE CURRENT APPROVED CITY OF AUSTIN STANDARD PRODUCTS LIST (SPL).

6. WATER FOR LANDSCAPE IRRIGATION WILL NOT BE NO. LUE'S FOR DOMESTIC WATER: 6



NO. LUE'S FOR WASTEWATER: 6

CAUTION!

ALL EXISTING UTILITIES VERTICALLY AND HORIZONTAL IMMEDIATELY IF ANY DISCREPANCIES.

FOR CITY USE ONLY:

SHEET NO.

1 of 41

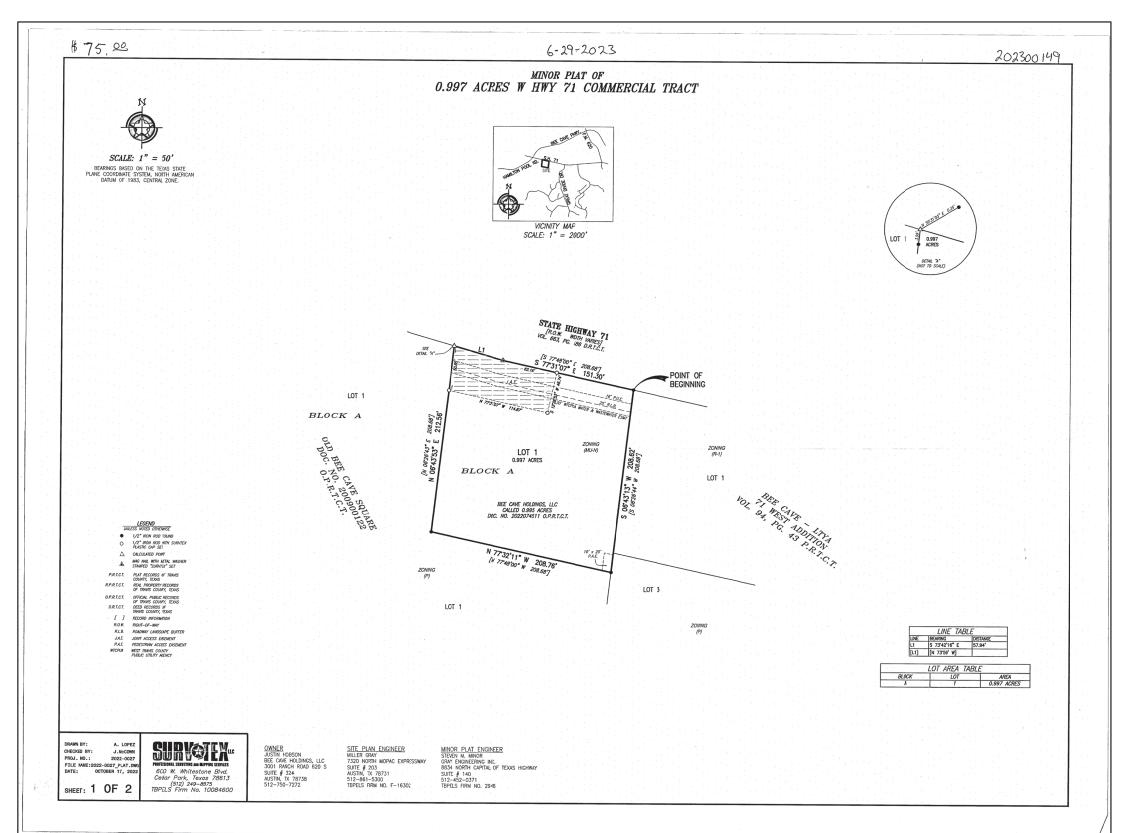
23-786-SNPS

\* J. TRAVIS WILSON 97307

SHE

CAVE

BEE STARBUCKS E COVER S



MillerGR/Consulting · Engineering · Infer TRAVIS WILSO 97307 4/5/2024

STARBUCKS BEE CAVE 14211 STATE HWY 71, BEE CAVE, TEXAS 78738

FINAL PLAT SHEET 1 OF 2

REVISIONS/CORRECTIONS
DESCRIPTION

CAUTION!

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION AND NOTIF

DATE: SHEET NO. 2 of 41

6/27/2023

6/27/23

LEGAL DESCRIPTION:
BEING A 0.997 ACRE TRACT OF LAND SITUATED IN THE HALL MEDLIN SURVEY NO.
S23, ABSTRACT NO. 540, IN TRAWS COUNTY, TEXAS, AND BEING ALL OF THAT OLILED 0.998 ACRE TRACT CONNEYED TO BEE CAVE HOLDINGS AS RECORDED IN DOCUMENT NUMBER 20/2074511, OFFICIAL PUBLIC RECORDS OF TRAWS COUNTY, TEXAS, SAID 0.999 AF OUT BRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS S7 FOUR TRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS S7 FOUR TRACT BEING MORE PARTICULARLY DESCRIBED BY METES

COMMENCING AT A TXDOT TYPE I MONUMENT (CONCRETE OBELISK) FOUND MAPKING A POINT OF CURVATURE AT OR NEAR STATION 1399+38.6 IN THE SOUTH RIGHT-OF-WAY LINE OF S.H. 71;

THENCE NORTH T7311/2" WEST, WITH SAID SOUTH RIGHT-OF-WAY LINE, AT A DISTANCE OF 1830.85 FEET, PASSING A TXOOT TYPE I MONUMENT (CONCRETE OBELISE) FOUND LINE OF SAID SOUTH RIGHT-OF-WAY LINE, AS RECORDED IN NO. 1950. A TXOOL OF THE SAID SOUTH RIGHT-OF-WAY LINE, AS RECORDED IN NO. 1974. A TXOOL DISTANCE OF 1938 AF FEET TO A TYPE - AND FIRST NOR FOUND MARRHSO THE COMMON MOTH CORNER OF SAID 0.95 ACRE TRACT AND OF LOT IT. BEE CAVE.—IT AT 71 WEST ADDIOIN, A SUBDONSON RECORDED TO MO. 94, 76, 43, 07 THE PLAT RECORD OF TRAMS COUNTY, TEXAS, SAID 1/2-MICH IRON ROD ALSO MARKING THE NORTH-LOST CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT;

THENCE SOUTH 06'43"13" WEST, WITH THE COMMON LINE OF SAID 0.995 AGRE TRACE AND SAID LOT 1, AT A DISTANCE OF 186.33 FEET PASSING A 1/2-INC4 IGNO ROO FOUND MARRION THE COMMON WEST CORNER OF SAID OLT 1 AND LOT 3 OF SAID BEE CAVE — LYA 71 WEST ADDITION, CONTINUING WITH THE COMMON LINE OF SAID 0.995 AGRE TRACE AND SAID LOT 3, FOR A 1070L DISTANCE OF 208.62 FEET TO A 1/2-INCH BON ROO FOUND MARRING THE EXSTERLY MORTHEAST CORNER OF LOT, BUCK A 5.00 BEE CAVE SOURCE A SUDDIVISION RECORDED IN DOC. NO. 200900122, OPATIC.1, SAIR BONN THE SOUTHMAST CORNER OF SAID 0.995 AGRE TRACET AND OF THE HERBIN DESCRIBED TRACE;

THENCE NORTH 7732'1" WEST, DEPARTING FROM SAID LOT 3 WITH THE COMMON LINE OF SAID 0.995 ARRE TRACT AND SAID LOT 1, BLOCK A, FOR A DISTANCE OF 208.76 FEET TO A 1/2-INCH IRON ROOF FOUND MARKING THE SOUTHWEST CORNER OF SAID 0.995 ARRE TRACT AND OF THE HEREON DECORRED TRACT, SAME BEING AM MICHE POINT IN THE DISTERSEY LINE OF SAID LOT 1, BLOCK A;

THESCE NORTH 06'43'33" EAST, CONTINUING WITH SAID COMMON LINE FOR A DISTANCE OF 212.56 FEET TO A CALCILIAETH PORT FOR THE COMMON NORTH CORRIER OF SAID 40.994 ACRE TRACT AND SAID LOT 1, BLOCK A, SAWE BERN THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT AND LIVING IN THE AFORESMS DOWN RIGHT—07"—WILL FROM WHICH A 1/2"—NOR INFORMOR FOUND LIVING IN SAID COMMON LINE BEARS SOUTH 06'43'53" WEST, A DISTANCE OF 3.99 FEET FOR REFERENCE, ALSO FROM WHICH A 1/2"—NOR IRON FOUND HORIS 93'31'03" EAST A DISTANCE OF 0.25 FEET, FOR REFERENCE,

THENCE SOUTH 73\*42"16" EAST, DEPARTING FROM SAID LOT 1, BLOCK A, WITH THE COMMON LINE OF SAID 0.995 ACRE TRACT AND SAID SOUTH RIGHT-OF-WAY LINE FOR A DISTANCE OF 51.94 FET TO A "TMAG" NUM WITH AN AULINIMA WASHER STAMPED "SURVITEX" SET MARKING AN ANIQLE POINT IN SAID COMMON LINE;

THENCE SOUTH 77'31'07" EAST, CONTINUING WITH SAID COMMON LINE FOR A DISTANCE OF 151.30 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.997 ACRES OF LAND, MORE OR LESS.

FLODDPLAIN CERTIFICATION NO DAYS OF THE SUBJECT PROPERTY UES WITHIN A FLOODPLAIN OR FLOOD PROME AREA OR A FLOOD WAY OF ANY BODY OF WATER PER THE FEDERAL EMERGENCY MANGEMENT ACROSY PATE MAP, COMMUNITY FLR.M. MAP PREPARED FOR TRANS COUNTY, DATED EFFECTIVE JANUARY 22, 2020. AS SHOWN ON COMMUNITY PANEL NO. 4459300143.

6-27-23 STEVEN M. MINOR, P.E.
STATE OF TEXAS NO. 133778
8834 N. CAPITAL OF TX HWY, SUITE 140
AUSTIN, TEXAS 78759



(512) 452-0371

KNOW ALL MEN BY THESE PRESENTS THAT I, JOHN W. MCOWN, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM AN ACTUAL ON-HE-GOUND SURFOY OF THE LAND SHOWN HEREON AND THAT THE SURVEY MONUMENTS SHOWN HEREON WERE SET UNDER MY SUPERVISION IN ACCORDANCE WITH THE SUBDIVISION ORDINANCE OF THE OTTO OF BEE CAME, TOXAS.

DATE

Juffer 6-26-23

JOYN W. McCOWN 600 W. WHITESTONE BLVD. CEDAR PARK, TEXAS 78613 (512) 249-8875

A. LOPEZ J.WcCOWN 2022-0027 FILE NAME:2022-0027\_MLAT.DWC
DATE: OCTOBER 17, 2022

SHEET: 2 OF 2

SURVOTEX PROFESSIONAL SURVETIRE AND MAPPING SERVICES
600 W. Whitestone Blvd.
Cedar Park, Texas 78613
(512) 249–8875
TBPELS Firm No. 10084600

KNOW ALL MEN BY THESE PRESENTS
THAT WE, BEE CAZE HOLDINGS, LLC, OWNERS OF A CALLED 0.995 ACRES OF LAND OUT OF THE HALL
MEDLIN SURVEY, ON 5.23, ABSTRACT 540 IN TRAMS COUNTY, TEXIS RECORDED IN DOCUMENT NUMBER
2022074511, O.P.R.C.E.T. DO REREDY ADOPT THIS IMMOR PLAT AS SHIWN HEREON TO BE KNOWN AS \*0.997
ACRES W HITY TACOMLERCIAL TRACT\* AND DO DEDICATE TO THE PJBLIC THE USE ALL NON-WACATED
STREETS AND EASIMENTS SHOWN HEREON. WITNESS MY HAND, THIS THE  $\frac{27^h}{\text{DAY OF}}$  DAY OF  $\frac{1}{\text{DAVE}}$  2023 A.D.

THE STATE OF TEXAS \$ COUNTY OF TRAVIS \$

JUSTIN HOBSON
BEE CAVE HOLDINGS, LLC
3001 RR 620 S, SUITE # 324
AUSTIN, TX. 78738
512-750-7272

THE STATE OF TEXAS \$ COUNTY OF TRAVIS \$

BEFORE ME, THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED JUSTIN HOBSON OF BEE CAME HOLDINGS, LLC, AS OWNER KNOWN TO ME TO RE THE PERSON WHOSE NAME IS SWIFTED AND SUBSCRIBED TO THE FORECOME INSTRUMENT, AND ACKNOMEDED TO ME THAT THE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATION HEREIN EXPRESSED AND IN THE CAPACITIES THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS 27 DAY OF JUNE, 20 23 AD.

Hally Kennen Holly Kennen-HOLLY KENNEMER
NOTARY PUBLIC
STATE OF TEXAS

My Comm. Expires 05-22-200 May 22, 2624 EXPIRATION DATE

BY: FIRST UNITED BANK & TRUST COMPANY, BENEFICIAR

BY: HAS UNITED BANK & TRUST COMPANY, BENEFICIARY
MARILA SAKERIO
FIRST UNITED BANK & TRUST COMPANY, BENEFICIARY
1517 CENTRE PLACE DRIVE, STE 100
DENTON, TX. 75205
940–349–3680.

BEFORE ME, THE UNDERSICNED AUTHORITY ON THIS DAY PERSONALLY APPEARED MARIA SALERNO THE RIRST UNITED BANK & TRUST COMPANY, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SWORN AND SUSCRIBED TO THE FORECOME HISTORIUMENT, AND ACKNOWLEDGED TO ME THAT SHE EXECUTED THE SAME FOR THE PURPOSE AND CONSIDERATION HEREIN EXPRESSED AND IN THE CAPACITIES THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS 27 DAY OF June , 2023 AD.

Halle Kennemen NOTARY PUBLIC, STATE OF TEXAS Huly Kennemar PRINTED NAME HOLLY KENNEMER
NOTARY PUBLIC
STATE OF TEXAS
ID # 1197803-2
My Comm. Expires 05-22-20 May 23,2034 EXPIRATION DATE

CITY CERTIFICATIONS:

1, THE UNDERSIONED PLANNING & DEVELOPMENT DIRECTOR OF THE
CITY OF BEE CAME, HEREBY CERTIFY THAT THIS SUBDIVISION PLAY
CONFORMS TO ALL REQUIREMENTS OF THE SUBDIVISION PLAY
OF THIS CITY AND IS HEREBY AUTHORIZED AND APPROVED FOR
RECORDING IN THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS.

PLANING & DEPLOYMENT DIRECTOR

ATTEST ATTEST:

Safe Collows City SECRETARY 6/27/23 DATE

I, DYANA LIMON-MERCADO, CLERK OF TRANS COUNTY, TEXAS DO HEREBY CERTIFY THAT THE FORECOING INSTRUMENT OF WEITING AND TS CERTIFICATE OF AUTHENTICATION WAS FILED FOR BECORD IN MY OFFICE ON THE 29, DAY OF Jacob. 2023 AT 31, OCICIOCK JUL, AND DULY RECORDED ON THE 29, DAY OF Jacob. 2023 AD. AT 311 OCICIOCK JUL, AND DULY RECORDED ON THE 29, DAY OF Jacob. 2023 AD. AT 211 OCICIOCK JUL, OFFICIAL PUBLIC RECORDS OF SAID COUNTY AND STATE IN DOCUMENT NO. 2023 AD. 41

WITNESS MY HAND AND SEAL OF OFFICE OF THE COUNTY CLERK, THIS 23 DAY OF DYNAU LINON-MERCADO, COUNTY CLERK, TRAYS COUNTY, TEVAS.



202300 149

- NOTES:

  1. THIS SUBDIVISION IS LOCATED WITHIN THE CITY LIMITS OF BEE CAVE AND IS SUBJECT TO APPLICABLE CITY OF BEE CAVE ORDINANCES.

  2. THIS SUBDIVISION IS LOCATED WITHIN THE LITTLE BARTON CREEK WITERSHED.

  3. THIS SUBDIVISION IS LOCATED WITHIN THE EDWARDS AQUIER CONTRIBUTION ZONE.

  4. ELECTRO SERVICE WILL BE PROVIDED TO THE SUBDIVISION BY AUSTIN ENERGY.

  5. AUSTIN DERROY HAS THE RIGH! TO PRILIE AND/OR REMOVE TREES, SHRUBBERY, AND OTHER OBSTRUCTIONS TO THE CYTEM INCESSARY TO KEEP THE EXCELLENTS CLEAR. AUSTIN DERROY MILL PERFORM ALL TREE WIRK IN COMPLIANCE WITH THE LAND DEVELOPMENT COLOR MOT THE CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF MOTHER CITY OF BEEC ALC. ON KITH TECHNICAL ONCE OF BEEC ALC. ON KITH TECHNICAL ONCE OF BEEC ALC.
- THE OWNERS OF THIS SUBDIVISION SHALL PROVIDE AUSTIN EMERGY WITH AN EASEMONT AND/OR ACCESS REQUIRED IN ADDITION TO THOSE INDICATED, EXCULSIVELY FOR THE INSTALLMENT AND ONCOMES MAINTENANCE OF FOLLITIES FOR IMPROVEMENTS OF THIS SUBDIVISION AND FOR NO OTHER PURPOSE. THESE EASEMONTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRICAL SERVICE TO THE BUILDING AND WILL, NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE GOLD OF CONCHIANCE WITH THE ANDO DEVELOPMENT CODE.
- LAUGE INE SITE TO BE OUT OF COMPLANCE WITH THE LAND DEVELOPMENT CODE.

  THE OWNER SHALL BE RESPONSIBLE FOR INSTRUMENT OF TEMPORARY FERSION CONTROL, REVECTATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INTRIAL TIRE PRINTING AND TREE REMOVAL HAIT IS WITHIN THE MERE OF THE CENTER LINE OF THE PROPOSED OVERFARED ELECTRICAL PACIFIES DESIGNED TO PROVIDE LECTRICAL PROTECTION. TO THIS PROJECT, THE OWNER SHALL INCLUDE AUSTIN EMERGY'S WORK WITHIN THE LUMRS OF CONSTRUCTION FOR THIS PROJECT.
- WITHIN THE LIMITS OF CONSTRUCTION FOR THIS FROJECT.

  8. THE OWNER OF THE PROPERTY OR HIS/HER ASSIGNS IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE MAINTAINING CLEARANCES REQUIRED BY THE MAINTAIN ELECTRIC SMETY CODE, THE COLUMNING ALL STATE CAN BE REPORTED AND STATE LAWS PERTAINING TO CLEARANCES WHEN WORKING IN CLOSE PROMISTIF TO VOLEMELD POPER LINES AND EXTREMENT BLEETY WILL NOT REDUCE ELECTRIC SERVICES UNLESS REQUIRED CLEARANCES AND AMERICANDED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCES WILLE CHARGE TO THE COMPARY.

  9. WAITER AND WASTEWARTER WILL BE PROVIDED BY WEST TRAVIS COUNTY PUBLIC UTILITY ASSENCY (WITC PUAL. AND WASTEWARTER WILL BE PROVIDED BY MEST TRAVIS COUNTY PUBLIC UTILITY ASSENCY (WITC PUAL. AND WASTEWARTER SYSTEM.
- A SIXTEEN FOOT (16") WIDE PUBLIC UTILITY EASEWENT (P.U.E.) IS CEDICATED FOR USE FOR PUBLIC UTILITIES ADJACENT TO ALL STREET SIDE PROPERTY LINES OF ALL LOTS SHOWN ON THIS PLAT.

- 11. A SIXTEEN FOOT (16)" WIDE PHIBLIC UTILITY EASIENT (PLLE) IS LEDICATED FOR USE FOR PUBLIC UTILITIES ADJACENT TO ALL STREET ISS PROPROPERTY LISES OF ALL LOTS SHOWN ON THIS PLAT.

  12. THE WATER SYSTEM FOR THIS SUBDIVISION SHALL BE DESIGNED TO SUPPLY THE FIRE FLOWS AS REQUIRED BY ORDINANCE 2010—I SHOWN THE PERSON'S SERVICES DISTRICT NO. 6. PLANS SHALL BE REVIEWED AND APPROVED BY TRAVIS COUNTY EMPERIORY SERVICES DISTRICT NO. 6. FOR CONSTRUCTION OF THE SUBDIVISION IMPROVMENTS AND STEE CALCULATION OF THE SUBDIVISION IMPROVMENTS AND STEE CALCULATION OF SERVICES DISTRICT NO. 6. FOR CONSTRUCTION OF THE SUBDIVISION IMPROVMENTS AND STEE CENTLE THE SERVICES DISTRICT NO. 6. FOR CONSTRUCTION OF THE SUBDIVISION IMPROVMENTS AND STEE COUNTY SERVICES ASSUMED NO. DELECTION FERROWSH. 13. IN APPROVING THIS PLAT, THE CITY OF BEEC CANCEL TRAVIS ASSUMES NO. DELECTION FERROWSH. 13. IN APPROVING THIS PLAT, THE CITY OF BEEC CANCEL TO SERVICE SO DELECTION FERROWSH. 13. STREETS OR ROADS SHOWN ON THE PLAT, AND ALL BRIDGES, CULLERS, DRAWAGE STRUCTURES CONSTRUCTED OR IN PLACE IN SUCH STREETS OR ROADS OF IN CONNECTION HEREWITH IS THE RESPONSIBILITY OF THE OWNER AND/ON DEVELOPER OF THE FRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH THE PLANS OF THE PLANS OF
- SAID EASEMENTS.

  16. DEVELOPMENT OF THIS PROPERTY SHALL NOT COMMENCE UNTIL A NON-POINT SOURCE POLLUTION CONTROL
  PERMIT AS REQUIRED BY THE CITY OF BEE CAVE, TEXAS HAS BEEN ESSUED BY THE CITY OF BEE CAVE, TEXAS

  17. ALL PROPERTY HEREN IS SUBJECT TO THE CITY OF BEE CAVE NON-POINT SOURCE FOLLUTION CONTROL. PERMIT
  FOR THIS SEBURYSION, ASUDIO THE USE OF THIS PROPERTY CHANGE, ALTER, OR ANHEOT THE USE AS PERMITTED
  IN THE NON-POINT SOURCE POLLUTION CONTROL PERMIT, THEN AN AMENDED NON-SOURCE POLLUTION CONTROL
  PERMIT SHALL BE REQUIRED.
- PERMITS, SHALL BE REQUIRED.

  3. SELLING A PORTION OF THIS UNIO BY METES AND BOUNDS IS A VOLATION OF THE CITY OF BEE CAVE ORDINANCES AND STATE LAW, AND IS SUBJECT TO FINES AND THE MITHOLDING OF UTILITIES AND BULLONG PERMITS.
- 20. AN INTEGRATED PEST MANAGEMENT PLAN SHALL BE PROVIDED AT THE SITE AND NPS PLAN STATE TO THE CITY OF BEE CAYS.
- 21. THIS SUBDIVISION IS ZONED MIXED USE NEIGHBORHOO 22. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF BEE CAVE SIGN ORDINANCE
- 23. THE APPROVAL BY THE CITY OF BEE CAYE OF THIS PLAT SHALL NOT, IN AND OF ITSELF, BE DEEMED TO CONSTITUTE OR IMPLY THE ACCEPTANCE BY THE CITY OF ANY STREET, PUBLIC AREA, EASEMENT OR PARK SHOWN ON THE PLAT.
- THE OWNER OF LOT 1 OF THE 0.997 ACRES W HWY 71 COMMERCIAL TRACT MINOR PLAT IS RESPONSIBLE FOR MAINTENANCE OF THE JOINT ACCESS EASEMENT.

THE STATE OF TEXAS \$
COUNTY OF TRAVIS \$

KNOW ALL MEN BY THESE PRESENTS
THAT I, STEVEN M. MINOR, P.E. A JICKNED PROFESSIONAL ENGINEER LICENSED BY THE STATE OF
TEXAS, HEREBY CERTIFY THAT THE PROPER ENGINEERING CONSIDERATION HAVE BEEN GIVEN TO THIS
PLAT AND IT MEETS THE REQUIREMENTS OF THE SUBDIVISION ORDINANCE OF THE CITY OF BEE CAVE,
TEXAS.

ACT 6-27.23 STEVEN M. MINOR, P.E.
STATE OF TEXAS NO. 133778
8834 N. CAPITAL OF TX HWY, SUITE 140
AUSTIN, TEXAS 78759 DATE

(512) 452-0371



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\* TRAVIS WILSO , 97307 CENST /m 4/5/2024

TEXAS:  $^{\circ}$ RBUCKS BEE (E HWY 71, BEE CAVE, 1 PLAT 2 OF 2 FINAL STARBUCKS STATE HWY 71, B

811
Know what's below. Call before you dig.

**CAUTION!** IT IS THE CONTRACTORS RESPONSIBILITY TO VERIF ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NOTIF THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

FOR CITY USE ONLY:

DATE: SHEET NO. 3 of 41

#### CITY OF BEE CAVE STANDARD CONSTRUCTION NOTES - ADOPTED JUNE 24, 2022

#### GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION, ANY DISCREPANCIES WITH CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER
- THE CONTRACTOR SHALL CONTACT THE TEXAS EXCAVATION SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS 48 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIEV THE LOCATIONS OF ALL UTILITIES THAT ARE TO BE EXTENDED, TIED TO, CROSSED, OR ALTERED; OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS
- CONTACT THE AUTHORITY HAVING JURISDICTION (WTCPUA/WCID17) FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
- 4. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. THE CITY ENGINEER MAY ALLOW FIELD ADJUSTMENTS WITHOUT FORMAL APPROVAL OF A CORRECTION, ON A CASE BY CASE BASIS, WITH THOSE CHANGES TO BE REFLECTED ON THE RECORD DRAWINGS
- A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS SHALL BE SITE SPECIFIC AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LANE CLOSURES ON ARTERIALS AND ANY FULL ROAD CLOSURES REQUIRE MESSAGE BOARDS NOTIFYING THE PUBLIC ONE WEEK PRIOR TO THE CLOSURE.
- 6. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M PER THE CITY'S NOISE ORDINANCE. REQUESTS FOR EXCEPTIONS TO THE NOISE ORDINANCE MUST BE MADE IN WRITING TO THE CITY MANAGER
- CONTACT THE CITY ENGINEERING STAFF (512-767-6675) AT LEAST 4 DAYS PRIOR TO WORK TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.
- 8. NO STREET LIGHTS OR SIGNS OF ANY KIND ARE TO BE PLACED WITHIN ANY SIDEWALKS.
- 9. NO BLASTING IS ALLOWED.
- 10. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER
- 11. THE CONTRACTOR SHALL GIVE THE CITY OF BEE CAVE 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. CONTACT THE PLANNING & DEVELOPMENT DEPARTMENT AT 512-767-6675
- 12. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND THE CITY OF BEE CAVE REPRESENTATIVES PRIOR TO INSTALLATION OF EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION MEASURES AND PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE CITY OF BEE CAVE ENGINEERING STAFF AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE, FOR PROJECT IN THE ETJ. THE PRE-CONSTRUCTION MEETING MUST BE SCHEDULED THROUGH TRAVIS COUNTY AND COORDINATED WITH THE CITY TO CONDUCT A SIMULTANEOUS CITY/COUNTY PRE-CONSTRUCTION MEETING. THE APPLICANT IS RESPONSIBLE FOR COORDINATING/SCHEDULING ATTENDANCE OF REPRESENTATIVES FROM THE UTILITY AND FIRE AUTHORITY HAVING JURISDICTION
- 13. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF BEE CAVE
- 14. ACCURATE "RECORD DRAWINGS" FOLLOWING THE COMPLETION OF ALL CONSTRUCTION. THESE "RECORD DRAWINGS" SHALL MEET THE SATISFACTION OF THE ENGINEERING DEPARTMENTS PRIOR TO FINAL
- 15. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS AND PROVIDE REVEGETATION IN ACCORDANCE WITH CITY STANDARDS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- 16. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND ROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS. AT NO ADDITIONAL COST TO OWNER.
- 17. THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES IN THE EVENT THAT A FENCE MUST BE REMOVED. THE CONTRACTOR SHALL REPLACE SAID FENCE OR PORTION THEREOF WITH THE SAME TYPE OF FENCING TO A QUALITY OF EQUAL OR BETTER THAN THE ORIGINAL FENCE.
- 18. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 1033 LA POSADA DR. SUITE 375, AUSTIN, TEXAS 78752-3832,
- 19. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF AUSTIN DETAILS AND STANDARD SPECIFICATIONS IN ACCORDANCE WITH THE CITY OF BEE CAVE ENGINEERING TECHNICAL MANUAL.
- 20. PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS GOVERN OVER TECHNICAL SPECIFICATIONS
- 21. HOT MIX ASPHALTIC CONCRETE PAVEMENT SHALL BE MINIMUM THICKNESS OF 2 INCHES WITH NO RECYCLED ASPHALT SHINGLES CONTENT
- 22. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY RISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR THE CONSTRUCTION OF
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES GAS, WATER, WASTEWATER, ELECTRICAL TELEPHONE CABLE TV AND STREET DRAINAGE WORK ONCE THE CONTRACTOR RECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER WITHIN TWENTY-FOUR (24) HOURS.
- 25. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER
- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER. ONLY SHOVELING AND SWEEPING WILL BE ALLOWED CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE
- 27. THE CITY OF BEE CAVE SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.

#### CITY OF BEE CAVE STANDARD CONSTRUCTION NOTES - ADOPTED JUNE 24, 2022

28. AN ENGINEER'S CONCURRENCE LETTER AND RECORD DRAWINGS SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO CONDUCTING THE FINAL CITY INSPECTION. THE ENGINEER AND CONTRACTOR SHALL VERIEY THAT ALL FINAL REVISIONS AND CHANGES HAVE BEEN MADE TO THE DIGITAL COPY PRIOR TO CITY SUBMITTAL. RECORD CONSTRUCTION DRAWINGS, INCLUDING ROADWAY AND ALL UTILITIES SHALL BE PROVIDED TO THE CITY IN DIGITAL FORMAT AS AUTOCAD ".DWG" FILES, MICROSTATION ".DGN" FILES OR ESRI ".SHP" FILES. LINE WEIGHTS, LINE TYPES AND TEXT SIZE SHALL BE SUCH THAT IF HALF-SIZE PRINTS (11"X17") WERE PRODUCED THE PLANS WOULD STILL BE LEGIBLE ALL REQUIRED DIGITAL FILES SHALL CONTAIN A MINIMUM OF TWO CONTROL POINTS REFERENCED TO THE STATE PLANE GRID COORDINATE SYSTEM - TEXAS CENTRAL ZONE (4203), IN US SURVEY FEET AND SHALL INCLUDE ROTATION INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO GRID COORDINATES IN US SURVEY

#### STREET AND DRAINAGE NOTES

- 1. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF BEE CAVE HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANTY OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY
- 2. PRIOR TO ACCEPTANCE THE ENGINEER SHALL SUBMIT DOCUMENTATION THAT THE IMPROVEMENTS WERE INSPECTED BY TDLR OR A REGISTERED ACCESSIBLITY SPECIALIST (RAS) AND ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE TABA.
- 3. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF BEE CAVE AFTER COMPLETION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT 512-7697-6675 NO LESS THAN 48 HOURS PRIOR TO ANY TESTING.
- 4. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR
- 5. WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 6" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE
- 6. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED BETWEEN THE CURB AND RIGHT-OF-WAY AND IN ALL DRAINAGE CHANNELS EXCEPT CHANNELS CUT IN STABLE ROCK.
- 7. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.
- 8. STREET RIGHT-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/2" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OFWAY AT 1/2" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF BEE CAVE ENGINEERING STAFF
- 9. BARRICADES BUILT TO THE CITY OF BEE CAVE STANDARDS SHALL BE ERECTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- 10. ALL REINFORCED CONCRETE PIPE SHALL BE MINIMUM CLASS III OF TONGUE AND GROOVE OR O-RING JOINT
- 11. THE CONTRACTOR IS TO NOTIFY THE ENGINEERING STAFF 48 HOURS PRIOR TO THE FOLLOWING TESTING: PROOF ROLLING SUB-GRADE AND EVERY LIFT OF ROADWAY EMBANKMENT, IN-PLACE DENSITY TESTING OF EVERY BASE COURSE, AND ASPHALT CORES. ALL OF THIS TESTING MUST BE WITNESSED BY A CITY OF BEE CAVE REPRESENTATIVE UNLESS OTHERWISE INSTRUCTED BY THE CITY ENGINEER
- 12. THE CONTRACTOR MUST PROVIDE A PNEUMATIC TRUCK PER TXDOT SPEC FOR PROOF ROLLING
- 13. ALL STRIPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.
- 14. MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RAISED TO GRADE PRIOR TO FINAL
- 15. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 48 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET ROW.
- 16. A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.
- 17. A MINIMUM OF SEVEN DAYS OF CURE TIME IS REQUIRED FOR HMAC PRIOR TO THE INTRODUCTION OF PUBLIC VEHICULAR TRAFFIC TO ANY STREETS.
- 18. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE CONSTRUCTION PLANS.
- 19. GEOTECHNICAL INVESTIGATION INFORMATION AND PAVEMENT RECOMMENDATIONS WERE PROVIDED BY PSI GEOTECHNICAL (PSI PROJECT NO. 03031690). PAVEMENT RECOMMENDATIONS ARE AS FOLLOWS:

MATERIAL		OPTION 1	OPTIO	OPTION 2	
TRAFFIC TYPE	LIGHT	HEAVY	LIGHT	HEAVY	
PORTLAND CEMENT CONCRETE	5"	6 1/2"	5"	6 1/2"	
LOW PI MATERIAL (PI<25)	-	-	-	-	
LIME STABILIZED SUBGRADE		8"	-		
COMPACTED SUBGRADE		-	8"		

#### TRENCH SAFETY NOTES

1. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN ITEM 509S "TRENCH SAFETY SYSTEMS" OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS

#### **GRADING NOTES**

- 1. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- 2. THE CONTRACTOR SHALL CONSTRUCT EARTHEN EMBANKMENTS WITH SLOPES NO STEEPER THAN 3:1 AND COMPACT SOIL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD **SPECIFICATIONS**
- 3. AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

#### BENCHMARK NOTES

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## APPENDIX E-3: ADOPTED JUNE 28, 2022

#### CITY OF BEE CAVE STANDARD SEQUENCE OF CONSTRUCTION

- A. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE - CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
- B. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE PLANNING & DEVELOPMENT DEPARTMENT AT 512-767-6675, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.
- C. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY AND THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC.) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED. IF NEEDED. TO COMPLY WITH CITY INSPECTORS' DIRECTIVES. AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
- D. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL AS REQUIRED, THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
- E. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
- F. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.
- G. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIORTO/CONCURRENTLY WITH REVEGETATION OF SITE.
- H. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
- I. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL SIGNATURE, AND DATE TO THE CITY ENGINEER INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION S COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY ENGINEERING STAFF
- JULIPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE CITY ENGINEER INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY ENGINEERING STAFF
- K. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY ENGINEER AND WITH APPROVAL FROM THE CITY ENGINEER, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS





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CAUTION! T IS THE CONTRACTORS R ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NO

DATE: SHEET NO. 4 of 41

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## APPENDIX E-1: ADOPTED JUNE 28, 2022

## CITY OF BEE CAVE EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTIVE
  FENCING, AND CONDUCT "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO ANY SITE
  PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- 2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE BEE CAVE ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF BEE CAVE ENGINEERING STAFF AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY BEE CAVE EV PLAN REVIEWERS AS WELL AS BEE CAVE EV INSPECTORS.
- 3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF BEE CAVE STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- 4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND BEE CAVE ENGINEERING STAFF AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTION MEASURES AND "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PLANNING & DEVELOPMENT DEPARTMENT, 512-75-76675, AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. BEE CAVE APPROVED ESC PLAN AND TPDES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY THE ENGINEERING STAFF AT THIS TIME.
- 5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED BEE CAVE STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENGINEERING STAFF DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
- 6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR THAT IS EITHER A LICENSED ENGINEER (OR PERSON DIRECTLY SUPERVISED BY THE LICENSED ENGINEER) OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC OR CPESC IT), CERTIFIED EROSION, SEDIMENT AND STORMWATER INSPECTOR (CESSWI OR CESSWI IT) OR CERTIFIED INSPECTOR OF SEDIMENTATION AND EROSION CONTROLS (CISEC OR CISEC IT) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY OR BI-WEEKLY INTERVALS AND AFTER ONE-HALF (½) INCH OR GREATER RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES OR ONE-THIRD (½) OF THE INSTALLED HEIGHT OF THE CONTROL WHICHEVER IS LESS.
- 7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
- 8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF BEE CAVE FOR FURTHER INVESTIGATION. IN ADDITION, IF THE PROJECT SITE IS LOCATED WITHIN THE EDWARDS AQUIFER, THE PROJECT MANAGER MUST NOTIFY THE TRAVIS COUNTY BALCONES CANYONLANDS CONSERVATION PRESERVE (BCCP) BY EMAIL AT BCCP@TRAVISCOUNTYTX.GOV. CONSTRUCTION ACTIVITIES WITHIN 50 FEET OF THE VOID MUST STOP.
- 9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:
- A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.
- TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN 601S.

AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF CITY OF AUSTIN STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.

 SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.

THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

#### TEMPORARY VEGETATIVE STABILIZATION:

- A. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN WHEATGRASS (PASCOPYRUM SMITHII)) AT 5.6 POUNDS PER ACRE, OATS (AVENA SATIVA) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN (SECALE CEREALE) AT 4.5 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
- B. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.
- FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER.
  APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE
  YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT
  COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY
  OF AUSTIN'S IPM COORDINATOR.
- 2. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW
- 3. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST IH INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
- 4. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL. AND STANDARD SPECIFICATION 604S OR 609S

#### APPENDIX E-1: ADOPTED JUNE 28, 2022 CITY OF BEE CAVE EROSION CONTROL NOTES

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION					
MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES	
100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER)	70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL FIBERS	0-3 MONTHS	MODERATE SLOPES; FROM FLAT TO 3:1	1,500 TO 2,000 LBS PER ACRE	

#### PERMANENT VEGETATIVE STABILIZATION

- A. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
- B. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S
- FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER.
  APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE
  YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT
  COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY
  OF BEE CAVE ENGINEERING STAFF.
- 2. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW
- 3. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE, AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE WTCPUAWCID NO. 17 AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES.
- 4. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1½ INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX, AND 95 PERCENT COVERAGE FOR THE NATIVE MIX SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
- WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF BEE CAVE UDC. ENVIRONMENTAL CRITERIA MANUAL. AND CITY OF AUSTIN ITEMS 604S AND 609S.

TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION					
MATERIAL	DESCRIPTION	LONGEVITY TYPICAL APPLICATIONS		APPLICATION RATES	
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS				
10% TACKIFIER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2500 TO 4000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)		
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3,000 TO 4,500 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS)	

#### DEVELOPER INFORMATION

OWNER: INVESTCOR DEVELOPMENT

PHONE: (512) 750-7272

ADDRESS: 3001 RANCH ROAD 620. STE 324

AUSTIN, TX 78738

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:

MILLER GRAY, LLC

PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:

CONTRACTOR

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:

#### CONTRACTOR

THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT AT 974-2278 AT LEAST 48 HOURS PRIOR WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.

#### APPENDIX E-2: ADOPTED JUNE 28, 2022

#### CITY OF BEE CAVE STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

- A. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
  - PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY OF BEE CAVE STANDARDS FOR TREE PROTECTION
- C. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
- D. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD- UP WITHIN TREE DRIP LINES.
- PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE), FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
- 1. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS:
- 2. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWEDAND AUTHORIZED BY THE CITY;
- 3 WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
- 4. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
- EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
- WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR
  OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA
  DISTURBED;
- 2. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE);
- 3. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEENTHE FENCE AND THE BUILDING:
- 4. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITYAT 512-767-6675 TO DISCUSS ALTERNATIVES.

SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OFCONSTRUCTION LINE WILL BE PERMITTED.

- G. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED- ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
- H. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- I. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- J. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- K. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL ISPERMITTED ON THE ROOT FLARE OF ANY TREE.
- L. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGEOCCURS (RIPPING OF BRANCHES, ETC.).
- M. ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THENATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
- N. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.





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CAUTION!

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ALL EXISTING UTILITIES VERTICALLY AND
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OR CITY USE ONLY:

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#### SPOILS MANAGEMENT AND DISPOSAL NOTES (WTCPUA) - REVISED MAY 25, 2020

- 1. TEMPORARY HOLDING SITES AS NECESSARY TO STOCKPILE EXCAVATED SOILS, EMBEDMENT MATERIAL. AND/OR PIPING AND APPURTENANCES MAY BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON
- 2. NO PERMANENT SPOILS DISPOSAL SHALL BE ALLOWED ON-SITE, UNLESS APPROVED BY THE OWNER AND GOVERNING AUTHORITY
- 3. ALL SPOILS MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL DISPOSAL SITE THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE; AND SHALL NOTIFY THE OWNER AND/OR ENGINEER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF ANY

#### **EROSION/ SEDIMENTATION CONTROL NOTES (WTCPUA)**

REFER TO CITY OF BEE CAVE EROSION/SEDIMENTATION NOTES ON SHEET 5

#### STANDARD TREE PROTECTION NOTES (WTCPUA)

REFER TO CITY OF BEE CAVE EROSION/SEDIMENTATION NOTES ON SHEET 5

#### HOURS OF CONSTRUCTION (WTCPUA) **REVISED MAY 25, 2020**

1. NO WORK SHALL BE DONE BETWEEN THE HOURS OF 8:00 P.M. AND 6:00 A.M; NOR ON SUNDAYS OR LEGAL HOLIDAYS WITHOUT THE WRITTEN PERMISSION OF THE WTCPLIA IN EACH CASE, EXCEPT SLICH WORK AS MAY BE NECESSARY FOR THE PROPER CARE, MAINTENANCE AND PROTECTION OF THE WORK ALREADY DONE OR IN THE CASE OF AN EMERGENCY

#### LIMITS OF CONSTRUCTION NOTES (WTCPUA) **REVISED MAY 25, 2020**

- THE LIMITS OF CONSTRUCTION SHALL BE BOUNDED BY THE RIGHT OF WAY LINE OR PERMANENT/ TEMPORARY EASEMENT LIMITS SHOWN ON THE PLANS, LIMITS OF CONSTRUCTION MAY BE FURTHER RESTRICTED BY PLACEMENT OF SILT FENCE, TREE PROTECTION FENCING, OR OTHER APPURTENANCES AS SHOWN ON THE
- 2. LIMITS OF CONSTRUCTION SHALL BE CLEARLY DELINEATED BY THE CONTRACTOR BY INSTALLING SILT FENCE, ORANGE TENSAR FENCING (4 FOOT ROLL TIED TO 6 FOOT POSTS SET AT 10 FOOT INTERVALS) OR OTHER BARRIERS AS APPROVED BY THE ENGINEER. ALL TEMPORARY BARRIERS SHALL BE REMOVED AT THE END OF
- 3. ANY AREAS OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY THE CONTRACTOR SHALL IMMEDIATELY BE RESTORED TO PRECONSTRUCTION CONDITION

#### SANITARY FACILITIES (WTCPUA) - REVISED MAY 25, 2020

PROVISIONS SHALL BE MADE FOR NECESSARY SANITARY CONVENIENCES FOR THE USE OF LABORERS ON THE WORK. THE FACILITIES MUST BE PROPERLY SECLUDED FROM PUBLIC OBSERVATION AND SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR

#### PROTECTION OF BORE PITS (WTCPUA) **REVISED MAY 25, 2020**

1. INSTALL BARRIER FENCING (TENSAR ORANGE FENCING OR CHAIN LINK FENCING) TO SURROUND THE BORE PITS. BARRIER FENCING SHALL REMAIN IN PLACE AT ALL TIMES WHILE THE BORE PIT IS OPEN. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY AND SAFETY AT THE BORE PITS

#### HORIZONTAL CONTROLS (WTCPUA) REVISED MAY 25, 2020

1. ALL LINE WORK SHALL BE STAKED PRIOR TO CONSTRUCTION WITH SEALED CUT SHEETS PROVIDED TO THE

#### CONSTRUCTION SEQUENCING

REFER TO CITY OF BEE CAVE EROSION/SEDIMENTATION NOTES ON SHEET 5

#### TRAFFIC CONTROL NOTES (WTCPUA) - REVISED MAY 25, 2020

- 1. PLANS SHALL INDICATE RESPONSIBLE AGENT FOR TRAFFIC CONTROL (ENGINEER OR CONTRACTOR)
- 2. CONTRACTOR SHALL MAINTAIN REASONABLE LOCAL VEHICULAR TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS
- 3. CONTRACTOR SHALL PROVIDE SIGNS, BARRICADES, FLAGGERS, AND OTHER MEASURES AS REQUIRED TO ALLOW FOR VEHICULAR AND PEDESTRIAN TRAFFIC TO PROCEED SAFELY WITH MINIMUM INCONVENIENCE.
- 4. SIGNS, BARRICADES, FLAGGERS, AND RELATED WORK SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WITH THE REQUIREMENTS OF THE GOVERNING CITY/COUNTY.
- 5. FOR ANY ACTIVITY WITHIN TXDOT RIGHT-OF-WAY, PROJECT MUST HA', E A TXDOT PERMIT. A COPY OF THE TXDOT PERMIT SHALL BE PROVIDED TO THE WTCPUA PRIOR TO CONSTRUCTION

#### SWPPP NOTES (WTCPUA) REVISED MAY 25, 2020

THIS PROJECT IS SUBJECT TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT TXR150000 FOR CONSTRUCTION ACTIVITIES. THE GENERAL PERMIT REQUIRES THE PREPARATION OF A STORM WATER POLITION PREVENTION PLAN (SWPPP) WHICH HAS BEEN PROVIDED BY THE OWNER FOR USE BY THE CONTRACTOR. THE OWNER SHALL PROVIDE THE OWNER'S NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) TO THE TCEQ. THE CONTRACTOR'S

- MAINTAIN A COPY OF THE SWPPP AND A SET OF CONSTRUCTION PLANS WITH THE TEMPORARY EROSION ANDSEDIMENT CONTROL PLAN AT THE WORK SITE AT ALL TIMES.
- 2. FILE A NOTICE OF INTENT (NOI) AND APPLICABLE PAYMENT TO THE TCEQ AT LEAST 2 DAYS PRIOR TO SITE
- 3. POST A COPY OF THE OWNER'S AND CONTRACTOR'S NOLFORMS AT THE WORK SITE
- 4. SIGN THE CERTIFICATION AND OBTAIN A SIGNED CERTIFICATION STATEMENT FROM ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL MEASURES WHICH INDICATES THAT THE CONTRACTOR AND SUBCONTRACTOR UNDERSTANDS THE PERMIT REQUIREMENTS (FORMS ARE IN
- FOLLOW AND COMPLY WITH ALL ASPECTS OF THE TPDES GENERAL PERMIT NO. TXR150000. THIS INCLUDES BUT IS NOT LIMITED TO FIELD INSPECTIONS AND REPORT, MAINTAINING AND REPAIRING EROSION CONTROLS AND UPDATING EROSION CONTROLS AND UPDATING EROSION CONTROL PLAN SHEETS BASED ON FIELD CHANGES AND MODIFICATIONS.
- 6. FILE A COPY OF THE CONTRACTOR'S NOTICE OF TERMINATION (NOT) WITH THE TCEQ ONCE THEWORK IS COMPLETED IN ACCORDANCE WITH THE TPDES GENERAL PERMIT NO TXR.150000 AND HAS BEEN ACCEPTED BY

#### WATER & WASTEWATER GENERAL CONSTRUCTION NOTES (WTCPUA) REVISED MAY 25, 2020

- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATESTATUTES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (0.S.H.A.).COPIES OF O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.INFORMATION AND RELATED REFERENCE MATERIALS MAY BE OBTAINED FROM O.S.H.A. AUSTIN AREAOFFICE - LA COSTA GREEN BLDG 1033, LA POSADA DR, SUITE 375, AUSTIN, TEXAS 78752-3832,
- 2. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE CITY OF AUSTIN STANDARD SPECIFICATIONSAND TO THE STATE LAW, (VERNON'S ANNOTATED TEXAS STATUTES, ARTICLE 1436 @) AND THE NEEDFOR EFFECTIVE PRECAUTIONARY MEASURES WHEN OPERATING IN THE VICINITY OF ELECTRICAL LINES. THECONTRACTOR IS RESPONSIBLE FOR ALL SAFETY REQUIREMENTS, AND FOR COORDINATION OF ALL WORK WITHTHE APPROPRIATE ELECTRIC UTILITY COMPANY.
- THE CONTRACTOR SHALL CONTACT THE ONE-CALL BOARD OF TEXAS AT 811 OR 1-800-545-6005 FOREXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. THE LOCATION AND TYPE OF UTILITIES ANDUNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING UTILITIES. THECONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANYCONSTRUCTION. IN ADDITIONAL TO NORMAL PRECAUTIONS WHEN EXCAVATING. USE EXTRA CAUTIONWHEN EXCAVATING WITHIN 25 FEET OF ANY
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN HIMSELF AND OTHERCONTRACTORS AND UTILITIES IN THE VICINITY OF THE PROJECT. THIS INCLUDES ALL WATER, WASTEWATER, GAS, ELECTRICAL, TELEPHONE, CABLE TELEVISION, AND STREET AND DRAINAGE WORK. ONCE THECONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFYTHE ENGINEER AND WTCPUA INSPECTOR WITHIN TWENTY-FOUR (24) HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL SPOIL MATERIAL FROM THE CONSTRUCTION SITE. ALL SPOILS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED SPOIL SITE.THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SECURING A PERMIT FOR THE SITE. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO DISPOSAL OF THE MATERIAL. NO SPOILS ARE TO REMAIN OVERNIGHT IN THE FLOODPLAIN.
- NO BLASTING OR BURNING WILL BE ALLOWED.
- 7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, AT HIS EXPENSE, ALL UTILITIES, PAVEMENT, CURB, FENCES OR ANY OTHER ITEMS DAMAGED DURING CONSTRUCTION REGARDLESS OF WHETHER THESE ITEMS ARE SHOWN ON THE CONSTRUCTION PLANS.
- 8. WHENEVER EXISTING UTILITIES, INDICATED OR NOT ON PLANS, PRESENT OBSTRUCTIONS TO GRADE AND/OR ALIGNMENT OF PROPOSED PIPE, CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER WHO W DETERMINE IF EXISTING IMPROVEMENTS ARE TO BE RELOCATED OR IF THE GRADE AND/OR ALIGNMENT OF ROPOSED PIPE IS TO BE CHANGED.
- 9. DUST PREVENTION SHALL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. DUST CONTROL SHALL INCLUDE SPRAYING OF WATER ON ALL DISTURBED AREAS. SPOIL PILES, OR HAUL MATERIALS ASSOCIATED WITH THE PROJECT OR OTHER METHODS APPROVED BY THE WTCPUA.
- 10. CLEANUP UPON COMPLETION AND BEFORE MAKING APPLICATION FOR ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL CLEAN ALL STREETS AND ALL GROUND OCCUPIED BY HIM IN CONNECTION WITH THE WORK OF ALL RUBBISH, EXCESS MATERIALS, EXCESS EXCAVATED MATERIALS, TEMPORARY STRUCTURES AND EQUIPMENT. ALL PARTS OF THE WORK SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE WTCPUA AND OTHER GOVERNMENTAL BODIES HAVING JURISDICTION PRIOR TO SUBMITTAL OF THE FINAL PAYMENT
- 11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO MINIMIZE DISRUPTION OF DELIVERIES. PARKING, AND OTHER ACTIVITIES.
- 12. DEWATERING, IF NECESSARY, SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT CONSTITUTE
- 13. THE MINIMUM DEPTH OF COVER FROM TOP OF PIPE TO FINISHED GRADE FOR ALL WATER LINES SHALL BE FOUR FEET, INSTALL LINES TO AVOID HIGH POINTS.
- 14. CONCRETE SHALL BE CLASS 'A' WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS
- 15. REINFORCING STEEL SHALL BE ASTM A 615M, GRADE 60 UNLESS OTHERWISE NOTED.
- 16. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED HEM. IN REVIEWING THESE PLANS, THE WTCPUA MUST RELY ON THE ADEQUACY OF THE DESIGN ENGINEER APPROVAL OF THESE PLANS BY THE WTCPUA DOES NOT RELEASE THE DESIGN ENGINEER OFTHESE

#### WTCPUA CONTACT INFORMATION

FACILITIES OWNER: WEST TRAVIS COUNTY PUA

13215 BEE CAVE PARKWAY, BUILDING B, SUITE 110

BEE CAVE TEXAS 78738

(512) 263-0100

.IRIFCHERS@WTCPUA ORG

LAND OWNER INFORMATION: BEE CAVE HOLDINGS, LLC

3001 RANCH ROAD 620, STE 324

AUSTIN, TEXAS 78738

(512) 750-7272

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:

MILLER GRAY LLC (512) 861-5300

MAINTENANCE: PERSON OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL:

CONTRACTOR

PERSON OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION:

CONTRACTOR





**TEXAS** NOTE S BEE CAVE, " WTCPUA N S

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STARBUCKS

CAUTION! ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NO THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES

SHEET NO. 6 of 41

# TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES - REVISED FEBRUARY 2019 OR LATEST VERSION

- 1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (ICEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. AT A MINIMUM, CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS"
- ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI [§290.44(A)(1)].
- PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF
  3. APPROVAL(NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD
  DIMENSION RATIO OF 26 OR LESS [6290.44(A)(2)].
- NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY [§290.44(A)(3)].
- ALL WATER LINE CROSSINGS OF WASTEWATER MAINS SHALL BE PERPENDICULAR [§290.44(E)(4)(B)].
- WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE [8290.44(A)(4)].
- THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES ISO.25 PERCENT [§290.44(B)].
- THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES WITH VENT OPENINGS TO THE ATMOSPHERE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT [§290.44(D)(1)].
- 9. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION (\$290.44(F)(1)).
- WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI-PERMANENT BODY

  OF WATER THE WATERLINE SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES

  MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION
  OF THE SYSTEM TO BE ISOLATED AND TESTED (§290.44(F)(2)).
- PURSUANT TO 30 TAC §290.44(A)(S), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT 11. ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS.
- THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCILIATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE:
  - Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR
  - $Q = \frac{LD\sqrt{F}}{148.00}$
- L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE IN (PSI).
- THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C-600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE:
  - Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR
  - $L = \frac{SD\sqrt{P}}{148,000}$
- $\ensuremath{\mathsf{S}}=\ensuremath{\mathsf{THE}}$  LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE IN (PSI).
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES. IF 2. THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS LITHLIZED MUST MEET \$200.44(E)(4). (4)
- THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE-FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE

  13. CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND ROTH ENDS SEAL ED WITH CEMENT GROLLT OR MANIJEACTURED SEAL AND 18/290 44(E)(5))
- FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY 14. WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION [§290.44(E)(6)].
- SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER
  LATERALS,OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN
  FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER
  SERVICE LINE [\$290.44(E)(7)].
- 16. WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAIN FIELDS [§290.44(E)(8)]
- THE CONTRACTOR SHALL DISINFECT THE NEW WATERLINES IN ACCORDANCE WITH AWWA STANDARD C-651-14 OR MOST RECENT, THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE
- 17. DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATERLINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER [§290.44(F)(3)].
- 18. DE-CHLORINATION OF DISINFECTING WATER SHALL BE IN STRICT ACCORDANCE WITH CURRENT AWWA STANDARD C655-09 OR MOST RECENT.

## WATER AND WASTEWATER UTILITY NOTES (WTCPUA) REVISED MAY 25, 2020

- WEST TRAVIS COUNTY PUA IS THE WATER AND / OR WASTEWATER SERVICE PROVIDER FOR THIS PROJECT.A
  PRE-CONSTRUCTION MEETING WITH THE WTCPUA SHALL BE HELD PRIOR TO COMMENCEMENT OF
  CONSTRUCTION TO SCHEDULE INSPECTION OF INSTALLATION OF WATER/WASTEWATER FACILITIES. WATER
  FACILITIES WILL BE INSPECTED UP TO, AND INCLUDING, THE WATER METER AND/OR FIRE HYDRANTS. THE
  CONTACT NUMBER FOR WTCPUA IS (512) 263-0100.
- THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND STANDARD DETAILS CURRENT AT THE TIME OF CONSTRUCTION SHALL GOVERN MATERIALS AND METHODS USED TO PERFORM THIS WORK. CITY OF AUSTIN SPECIFICATIONS AND STANDARD DETAILS ARE AVAILABLE AT HTTPS://LIBRARY.MUNICODE.COM/TX/AUSTIN/CODES/
- CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS, INCLUDING BUT NOT LIMITED TO STREET/DRIVEWAY CUT AND UTILITY CUT PERMITS FROM THE APPROPRIATE GOVERNMENTAL AGENCY BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
- 4. THE WTCPUA SHALL BE CONTACTED AT (512) 263-0100 AT LEAST 48 HOURS BEFORE CONNECTING TO THEIR EXISTING WATER AND/OR WASTEWATER FACILITIES.
- 5. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 811 OR 1-800-545-6005 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. IN ADVANCE OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS.
- NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER
  ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE
  WITH THE WATER AND/OR WASTEWATER SERVICES.
- 8. WHERE WATER LINES AND SEWER LINE ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53(D) (PIPE DESIGN) AND 30 TAC §290.44(E) (WATER DISTRIBUTION). ANY DEVIATION THESE STANDARDS SHALL REQUIRE A VARIANCE APPROVED BY TCEQ BEFORE SUBMITTING PIPING ASSIGNMENTS TO THE WTCPUA.
- 9. THE CITY OF AUSTIN SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE. CONTRACT DOCUMENTS, WHICH INCLUDE A TRENCH SAFETY PLAN SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER AND A PAY ITEM FOR TRENCH SAFETY MEASURES, IN COMPLIANCE WITH OSHA, STATE, COUNTY, AND CITY REQUIREMENTS BEFORE BEGINNING WORK ON THE PROJECT.
- 10. ALL MATERIAL TESTS, INCLUDING SOIL DENSITY TESTS AND RELATED SOIL ANALYSIS, SHALL BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY FUNDED BY THE OWNER IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 18045.4.
- 11. CONNECTIONS TO EXISTING WTCPUA WATER LINES SHALL BE MADE BY CUT-IN TEES IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(24). ISOLATION VALVES SHALL BE INSTALLED ON THE ENDS OF THE CUT-IN TEE, AS NECESSARY, A SHUT-OUT VALVE PLAN SHALL BE PROVIDED SHOWING THE LOCATION OF EXISTING GATE VALVES IN THE VICINITY OF THE CONNECTION. THE SHUT-OUT PLAN SHALL IDENTIFY ALL AFFECTED PROPERTY OWNERS. CONTRACTOR SHALL PERFORM ALL WORK AND SHALL FURNISH ALL MATERIALS, INCLUDING DRAINING AND CUTTING INTO EXISTING PIPING AND CONNECTING A NEW PIPELINE OR OTHER EXTENSION INTO THE EXISTING PRESSURE PIPING, FORMING AN ADDITION TO THE POTABLE WATER TRANSMISSION AND DISTRIBUTION NETWORK AND PERFORMING NECESSARY SHUTOFFS. CONTRACTOR SHALL SCHEDULE ALL SUCH CONNECTIONS IN ADVANCE AND SUCH SCHEDULE SHALL BE APPROVED BY THE WTCPLIA BEFORE BEGINNING THE WORK. AT LEAST 48 HOURS-NOTICE SHALL BE GIVEN TO THE WTCPUA PRIOR TO MAKING THE CONNECTION, AND A REPRESENTATIVE FROM THE WTCPUA SHALL BE PRESENT WHEN THE CONNECTION IS MADE. PRESSURE TAPS MAY BE APPROVED ON A CASE-BY-CASE BASIS. "SIZE ON SIZE" TAPS WILL NOT BE PERMITTED. WHEN APPROVED, ANY TAPS SHALL BE MADE BY USE OF AND APPROVED FULL CIRCLE, GASKETED CAST IRON OR DUCTILE IRON TAPPING SLEEVE. CONCRETE BLOCKING SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES PRIOR TO MAKING THE PRESSURE TAP AND THE USE OF PRECAST BLOCKS MAY BE USED TO HOLD THE TAP IN ITS CORRECTION POSITION PRIOR TO BLOCKING. THE BLOCKING BEHIND AND UNDER THE TAP SHALL HAVE A MINIMUM OF 24 HOURS CURING TIME BEFORE THE VALVE CAN BE REOPENED FOR SERVICE FROM THAT TAP. THE CONTRACTOR SHALL NOTIFY THE WTCPUA INSPECTOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE FOR THE WTCPUA TO NOTIFY THE AFFECTED CUSTOMERS. THE WTCPUA SHALL BE PRESENT WHILE ALL WORK IS PERFORMED TO MAKE THE CONNECTION.
- 12. THRUST RESTRAINT SHALL BE BY METAL THRUST RESTRAINTS IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(22).
- 13. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY OF STANDARD SPECIFICATION ITEM 51LS.3 E ANDSHALL BE APPROVED FIRE DEPARTMENT OR OTHER APPROPRIATE PARTY PRIOR TO INSTALLATION. FIREHYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A POLY WRAP BAG ANDTAPED INTO PLACE. THE POLY WRAP WILL BE REMOVED WHEN THE WAINS ARE ACCEPTED AND PLACED INSERVICE. FIRE HYDRANTS THAT ARE TO BE USED AS DRAIN HYDRANTS SHALL BE PAINTED SILVER W/ BLUE CAPSPRIOR TO ACCEPTANCE. WHERE STORZ ADAPTORS ARE REQUIRED (HAYS COUNTY), FIRE HYDRANTS SHALL BEMANUFACTURED WITH INTEGRAL STORZ ADAPTORS.
- 14. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(29) AND/OR TCEQ RULES.
- 15. TEST PRESSURE FOR 2-HOUR TEST SHALL BE AT 175 PSI AT THE LOWEST POINT IN THE LINE.

#### NOTE:

PRIOR TO PRESSURE TESTING, CONTRACTOR SHALL VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT BACK TO AND INCLUDING THE VALVE AGAINST WHICH THE PRESSURE TEST SHALL BE PERFORMED, HAS BEEN INSTALLED TO AT LEAST THE SPECIFICATIONS OF THIS PROJECT. FAILURE TO VERIFY THAT THRUST BLOCKING AND/OR THRUST RESTRAINT IN THE EXISTING LINE MEETS OR EXCEEDS THE SPECIFICATIONS OF THIS PROJECT MAY RESULT IN SERIOUS DAMAGE TO THE EXISTING WATERLINE.

- 16. WATER LINES SHALL BE FILLED WITH WATER AND ALL AIR EXPELLED AT LEAST 24 HOURS BEFORE TESTING. ALL SERVICE LATERALS AND DRAIN VALVE LEADS, WITH THE HYDRANT VALVES CLOSED AND NOZZLE CAPS OPEN SHALL BE INCLUDED IN THE TESTS.
- 17. CONTRACTOR SHALL SUBMIT A DISINFECTION AND FLUSHING PLAN IN ACCORDANCE WITH AWWA STANDARDS TO THE WTCPUA FOR APPROVAL. REQUIRED FLUSHING VOLUMES, FLUSHING SCHEDULE, AND METHOD OF DISPOSAL OF FLUSH WATER SHALL BE IN ACCORDANCE WITH THE APPROVED PLAN.
- 18. GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509, WITH A MINIMUM RATED WORKING PRESSURE OF 250 PSIG.
- FORCE MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEM 510.3(27) AND/OR TCEQ RULES.
- 20. GRAVITY SANITARY SEWER MAIN TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATION ITEMS 510.3(26) AND/OR TCEQ RULES. IN ADDITION, ALL GRAVITY SANITARY SEWER MAINS SHALL BE TELEVISED PRIOR TO ACCEPTANCE BY WTCPUA. DIGITAL FILES (VIA CD-ROM) CLEARLY SHOWING TELEVISED RECORDING SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOLLOWING INSPECTION.
- 21. LOCATOR 'FINDER' WIRE ALL NON -METALLIC WATER LINES SHALL HAVE A FINDER WIRE LOCATED ABOVETHE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT EACHISOLATION VALVE SUCH THAT IT IS ACCESSIBLE FROM THE VALVE BOX.

## WATER AND WASTEWATER UTILITY NOTES (WTCPUA) REVISED MAY 25, 2020

- 22. LOCATOR 'FINDER' WIRE ALL NON-METALLIC WASTEWATER LINES SHALL HAVE A FINDER WIRE LOCATED ABOVETHE PIPE. THE WIRE SHALL BE POLY-INSULATED NO. 10 SOLID COPPER AND WILL TERMINATE AT READILYACCESSIBLE LOCATIONS THROUGHOUT THE COLLECTION SYSTEM.
- 23. ALL VALVE RISERS SHALL HAVE A 1'-6" SQUARE CONCRETE BOX POURED AROUND THEM AT FINISHED GRADE.
- 24. ALL MANHOLES SHALL BE LINED WITH A CORROSION RESISTANT LINING APPROVED BY THE WTCPUA.
- 25. BOLTED AND GASKETED COVERS SHALL BE USED FOR ALL MANHOLES LOCATED IN THE 100-YEAR FLOODPLAIN.WHERE THERE ARE MORE THAN THREE GASKETED MANHOLES IN A ROW, VENTS SHALL BE PROVIDED ONE VERY THIRD MANHOLE.
- 26. THE DOWNSTREAM END OF ANY FORCE MAIN SHALL BE TERMINATED IN A SANITARY SEWER MANHOLE IN A MANNER TO MINIMIZE TURBULENCE.
- 27. CONTRACTOR SHALL HAVE NECESSARY EROSION AND SEDIMENTATION CONTROLS IN PLACE PRIOR TO COMMENCING WATER/WASTEWATER FACILITY CONSTRUCTION.
- 28. RECORD DRAWINGS, AS STIPULATED BY THE WTCPUA, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR VERIFICATION AND FURNISHED TO THE WTCPUA UPON COMPLETION OF THE PROJECT.
- 29. THE WTCPUA WILL OWN AND OPERATE ALL WATER LINES AND APPURTENANCES UP TO AND INCLUDING THE WATER METER. THESE IMPROVEMENTS WILL BE DEFINED BY A RECORDED EASEMENT OR IN PUBLIC RIGHT-OF-WAY.
- 30. ANY PORTIONS OF WASTEWATER LINES INCLUDING SERVICES THAT ARE LOCATED OUTSIDE OF A RECORDED EASEMENT OR PUBLIC RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER, ORHIS/HER ASSIGNS.
- 31. WHERE EXISTING WATER AND/OR WASTEWATER INFRASTRUCTURE IS TO BE ABANDONED, THE ENGINEER SHALL SUBMIT AN ABANDONMENT PLAN FOR APPROVAL BY THE WTCPUA.
- 32. WATER SERVICES SHALL BE INSTALLED USING HDPE PIPE. COPPER IS NOT ALLOWED
- 33. FOR ANY STORM SEWER LINE CROSSING A WATER OR WASTEWATER LINE CLOSER THAN 18", THE STORM SEWER PIPE SHALL BE LAID SUCH THAT NO STORM SEWER JOINTS WILL BE OVER THE WATER PIPE CROSSING

OTHER NOTES – ENGINEER IS RESPONSIBLE FOR INCLUDING ALL APPLICABLE NOTES, INCLUDING BUT NOT LIMITED TO COUNTY, CITY, TXDOT, STATE, FIRE DEPARTMENT, TCEQ (CZP, WPAP, ORGANIZED SEWAGE COLLECTION SYSTEM NOTES, GENERAL CONSTRUCTION NOTES), ENGINEER IS RESPONSIBLE FOR ENSURING THE CURRENT ADOPTED VERSION OF ALL NOTES IS INCLUDED IN THE CONSTRUCTION PLANS.



Consulting • Enginee 7320 N. MoPac Expr Austin, Text, Phone (512)



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WTCPUA NOTES
2 OF 2

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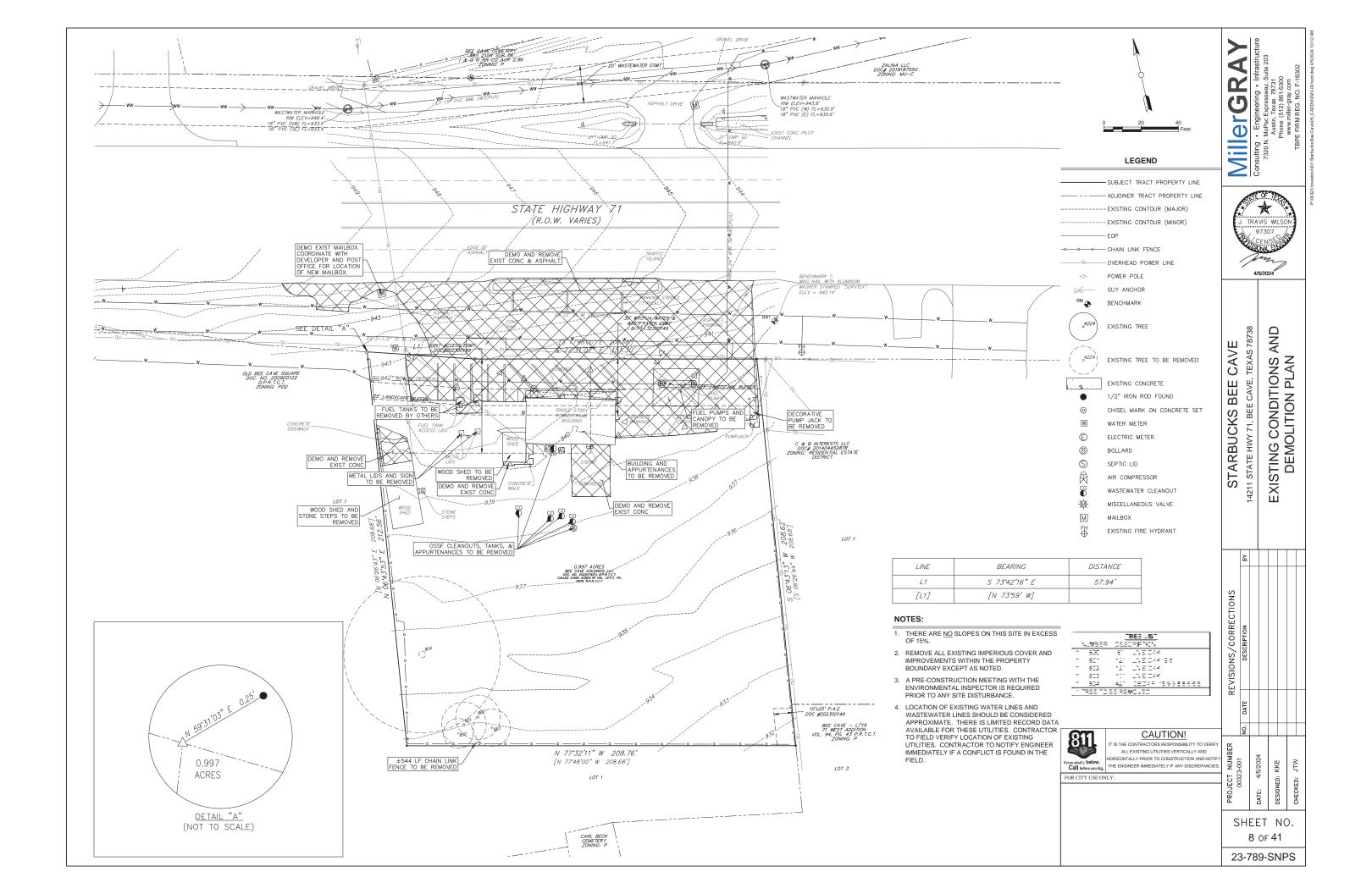
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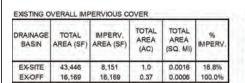
IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY
ALL EXISTING UTILITIES VERTICALLY AND
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THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES

OR CITY USE ONLY:

SHEET NO. 7 of 41

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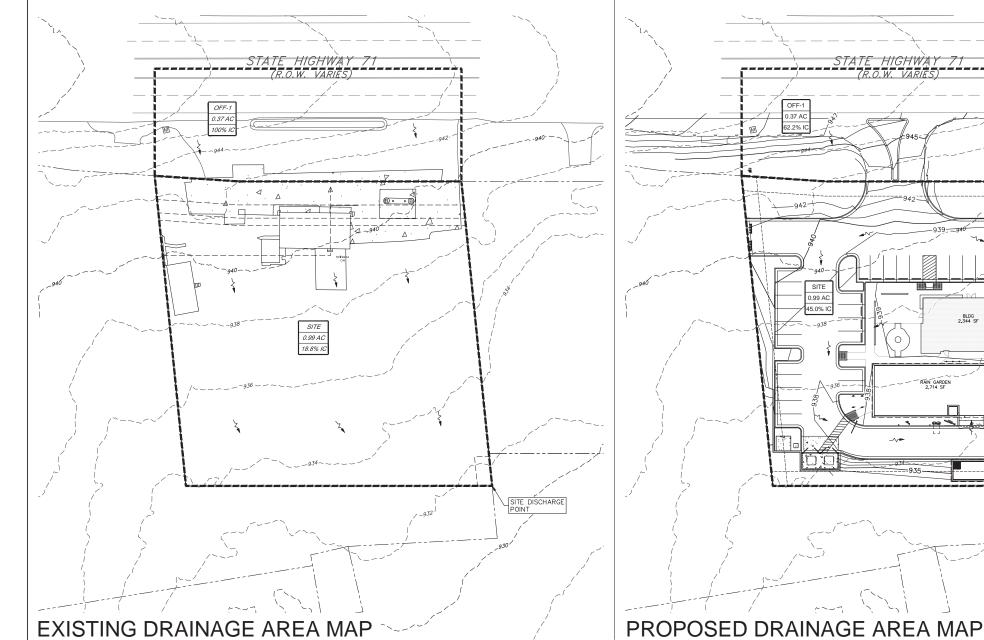




EXISTING CU	RVE NUMBER	RS				
DRAINAGE AREA	TOT. AREA (AC)	A (AC)	(AC)	C (AC)	D (AC)	COMPOSITE
EX-SITE EX-OFF	1.0 0.37			1.0		79 79
SOIL GROUP		Α.	В	С	D	DCM TBL 2-5,
CURVE NUM	BER	49	69	79	84	GRASSLND, FAIR

EXISTING	TIME	OF	CONCENTRATION

DRAINAGE		SHEET	FLOW			SHALLOW CONCENTRATED FLOW (UNPAVED)		CHANNEL FLOW	TOTAL	тот
AREA	L (FT)	n	S (%)	T <sub>c</sub> (min)	L (FT)	S (%)	T <sub>c</sub> (MIN)	N/A	T <sub>6</sub> 7.90%	T <sub>ta</sub> (M)
EX-SITE	100	0.15	3.8%	6.7	218	3.8%	1.2	N/A	7.8	4.
FX-OFF	100	0.02	2.0%	1.4	0	0.0%	0.0		5.0	3



DRAINAGE SUMMARY FOR SITE DISCHARGE POINT

EXISTING

RETURN

ANNUAL CHANGE

COMPUTED PEAK FLOW RATES (CFS)

NO POND | WITH POND

4.9 8.2 10.5 14.2

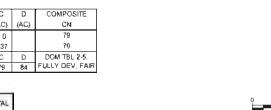
WATER SURFACE OFTENTION VOLUME (AC-FT)

PROPOSED	OVERALL I	MPERVIQUS	COVER		
DRAINAGE BASIN	TOTAL AREA (SF)	IMPERV. AREA (SF)	TOTAL AREA (AC)	TOTAL ARFA (SQ. MI)	% IMPERV.
PR-SITE	43,446	19.560	10	0.0016	45.0%
PR-OFF	16 169	10 057	0.37	agon n	62.2%

PROPOSED	CORAF UNWE	3ERS				
DRAINAGE	TOT, AREA	A	В	С	D	COMPOSITE
AREA	(AC)	(AC)	(AC)	(AC)	(AC)	CN
PR-SITE	1.0			10		79
PR-OFF	0.37			0.37		79
SOIL GROUP		Α	В	C	D	DCM TBL 2-5.
CURVE NUM	BER	49	69	79	84	FULLY DEV, FAIR

BLDG 2,344 SF

DRAINAGE	SHEET FLOW			SHALLOW CONCENTRATED FLOW (PAVED)		CHANNEL FLOW	TOTAL	TOTA		
AREA	L (FT)	n	S (%)	T <sub>c</sub> (min)	L (FT)	S (%)	T <sub>c</sub> (MIN)	žui.	T <sub>o</sub> (MIN)	Tia;
PR-SITE	25	0.15	3.8%	2,2	293	3.8%	1.2	N/A	5.0	3.0
PR-OFF	100	0.02	2.0%	1.4	0	0.0%	0.0		5.0	3.0



SUBJECT TRACT PROPERTY LINE --- ADJOINER TRACT PROPERTY LINE --- EXISTING CONTOUR (MAJOR) 843 ---- EXISTING CONTOUR (MINOR) - PROPOSED CONTOUR (MINOR) ■■DRAINAGE AREA BOUNDARY EXISTING DRAINAGE AREA LABEL

0.83 AC 5% IC PR-2 0.83 AC 40% IC

PROPOSED DRAINAGE AREA LABEL

FLOW ARROW





STARBUCKS BEE CAVE 14211 STATE HWY 71, BEE CAVE, TEXAS 78 DETENTION DRAINAGE AREA MAPS

# NOTES:

- 1. POND IS SIZED FOR 65% IMPERVIOUS
- DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION, OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.



CAUTION!

PROJECT 0032	DATE: 5	DESIGNED:	снескер:				
SHEET NO. 9 of 41							

23-789-SNPS

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIF ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NOTIF THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

ı	

			HAIL FILLA	OUS COVER CALCS			
- 1	AREA		IMPERVIOUS DATA				
	(SF)	(AC)	AREA (SF)	DESCRIPTION	% IMPERV.		
EXISTING			8,196.04	BUILDING, STRUCTURES, PAVED AREA	15%		
PROPOSED	52929.16	1.22	26,291.20	BUILDING, DRIVE ISLE, PARKING AREA, SIDEWALK, CONCRETE PADS	50%		

\*NOTE: Please see the water quality drainage area maps shown below for a representation of the impervious areas.

# City of Bee Cave Pollutant Load Calculations STEP 1. ENTER SITE DATA

Pollutant	Pre-Developed Loading, Lpre (lb/yr)	Developed Loading Ldev (lb/yr)
Total Suspended Solids (TSS)	166.66	500.89
Total Phosphorus (TP)	0.40	1.19
Oil and Grease (O&G)	5.02	15.09

L = C \*V \*A , \*CF

TEP 3. DETERMINE BMP POLLUTANT LOAD REMOV	AL EFFICIENCIES				
BMP Order	BMP Type		Removal Efficiency (%)		
in Series	вин туре	TSS	TP	0&G	
1	Bioretention	89.0	72.0	89.0	
	TOTAL EFFICIENCY	89.0	72.0	89.0	

\*TSS removal efficiency and O&G (not explicity stated, but related to TSS) are from TCEQ RG-348 Table 3-1, page 3-4
\*\*TP removal is from LCRA Technical Manual Table 2-6, page 2-11
\*\*\*Removal Efficiency Equation from COBC ECM Section 1.6.2.G: Water Quelity Facilities in Series

 $E_{TOT} = \left[1 - \left(1 - \frac{E_1}{100}\right)\left(1 - 0.65 \frac{E_2}{100}\right)\left(1 - 0.25 * \frac{E_3}{100}\right)\right] * 100$ 

Pollutant	Required I	Total BMP Removal**		Meets	
Pollutant	(%)	(lb/yr)	(%)	(lb/yr)	Criteria?
Total Suspended Solids (TSS)	90.0	300.81	89.0	445.79	YES
Total Phosphorus (TP)	90.0	0.72	72.0	0.86	YES
Oil and Grease (O&G)	90.0	9.06	89.0	13.43	YES

PAIN GARDEN CALCULATIONS FOR DEVELOPMENT PERMITS

PROJECT: CONTROL STARBUČKŠ BEE CAVE PARTIAL FILTRATION RAIN GARDEN

AINAGE AREA DATA	
DRAINAGE AREA TO CONTROL (MAX 2 AC)	1 22 A
DRAINAGE AREA IMPERVIOUS COVER (IC)	50 5
CAPTURE DEPTH (CD)	O BD 1/
ITER QUALITY CONTROL CALCULATIONS:	REQU.RE

17.1_CFS		
2,714 SF	2,714	s
MAX 1 D FT	10	F
MIN 15 FT	1.50	F
	977	c
	2.714	Ċ
	2,714 SF MAX 1 0 FT	2,714 SF 2,714 MAX 10 FT 10 MIN 15 FT 1.50 977

APPENDIX F-7

TAL, WQV	-	3,691	GF
KTER QUALITY ELEVATION (WOE) EVATION OF SPLITTER/OVERFLOW WEIR (MINIMUM WOE)			FT MSL

LENGTH OF SPLITTER WEIR		16 0 FT
REQUIRED HEAD TO PASS Q100	MAX 0.5	0.50 FT
POND FREEBOARD PROVIDED TO PASS Q100	MIN 0 25 FT	0.6 FT

47.34 HR UNDERDRAIN ORIFICE SIZE (DIAMETER) 1 125 IN 1.00 SQ IN

### PAINWATER HARVESTING TANK CALCULATIONS ISOLATION OF ROOF RUNGEF FOR ALLOWABLE INCREASE IN SITE IMPERVIOUS COVER

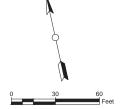
PROJECT JURISDICTION STARBUCKS BEE CAVE LURISDICTION CITY OF BEE CAVE TX

APPLICABLE CODE UNIFIED DEVELOPMENT CODE (7.3.2.L)

CONVERSION IT OF # 7.48 GAL

### CALCULATIONS

DRAINAGE AREA TO CO	MTROL (CA)	2344
DA = ROOF APEA		
DRA NAGE AREA IMPER	vious cover (C)	100_
WATER QUALITY CAPTU	RE DEPTH (CD)	1 30 1
CO = 0.51 + 0.11 1/PE	R 16% POINT INCREASE OF ICOVER 20%;	
EXCESS OVER 20%	= IC - 29% = 80%	
PER 10% POINT INC	REASE = 50% 10 1 = 0.8	
WATER QUALITY VOLUM	ME (WQV)	254 (
WQV = (00/12) * 0A		



#### LEGEND

SUBJECT TRACT PROPERTY LINE
843 EXISTING CONTOUR (MAJOR)
843 EXISTING CONTOUR (MINOR)
DRAINAGE AREA BOUNDARY



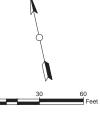
1899 GAL

EXISTING DRAINAGE AREA LABEL



PROPOSED DRAINAGE AREA LABEL

IMPERVIOUS COVER AREA





WATER QUALITY DRAINAGE AREA MAPS & CALCS TEXAS 787 STARBUCKS BEE CAVE

# NOTES:

- 1. RAIN GARDEN (PARTIAL INFILTRATION) IS SIZED FOR ON-SITE IMPERVIOUS COVER ONLY.
- 2. DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION, OR INTEGRITY OF TEXAS
  DEPARTMENT OF TRANSPORTATION RIGHT OF WAY DRAINAGE FACILITIES.



## CAUTION!

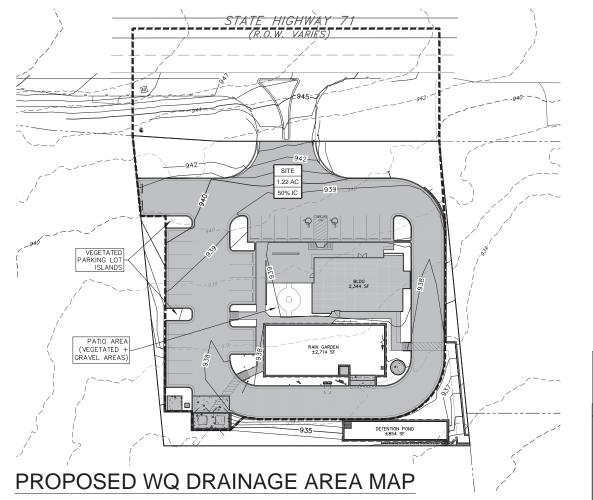
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OR CITY USE ON	ILY:

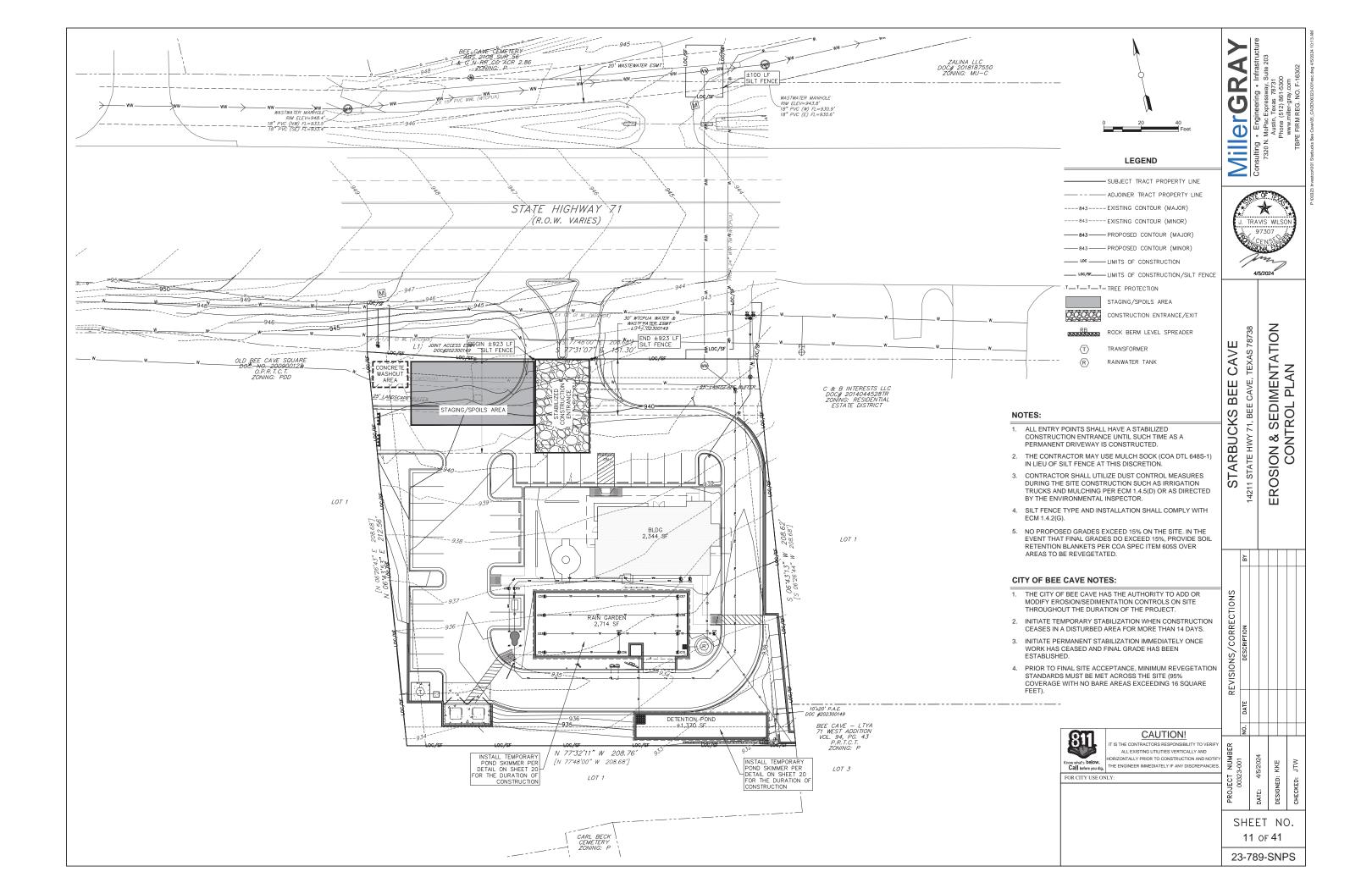
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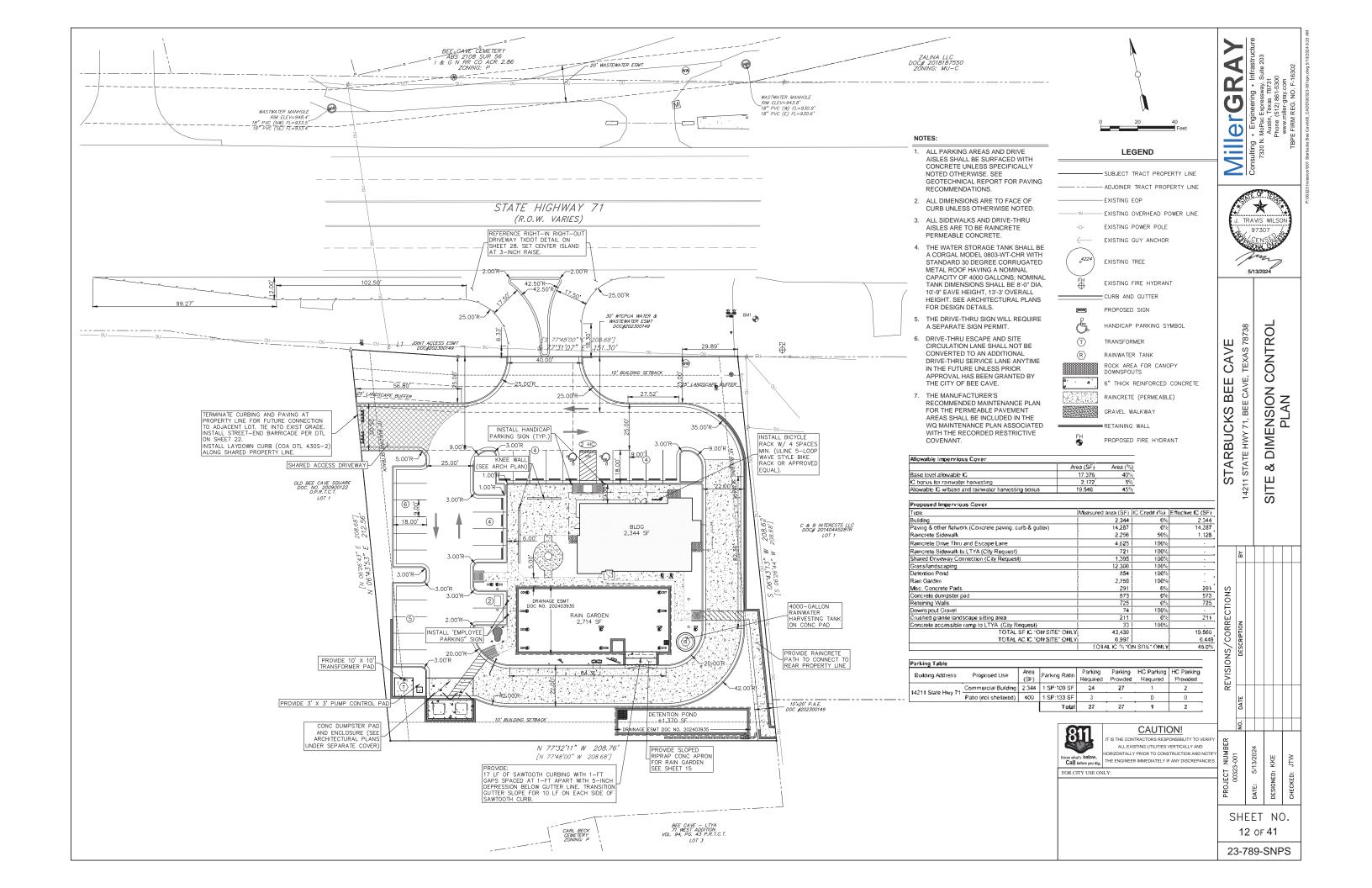
> SHEET NO. 10 of 41

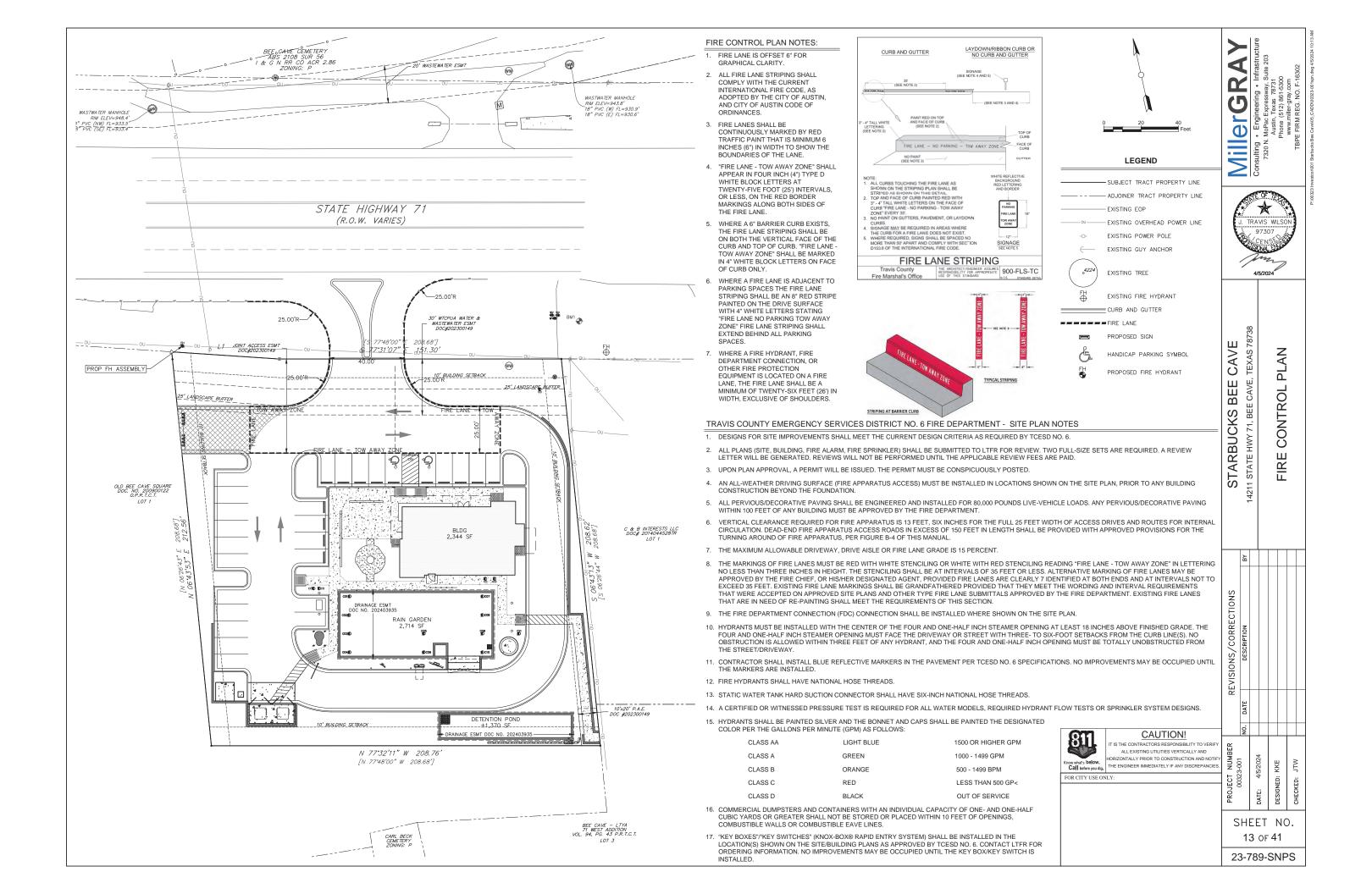
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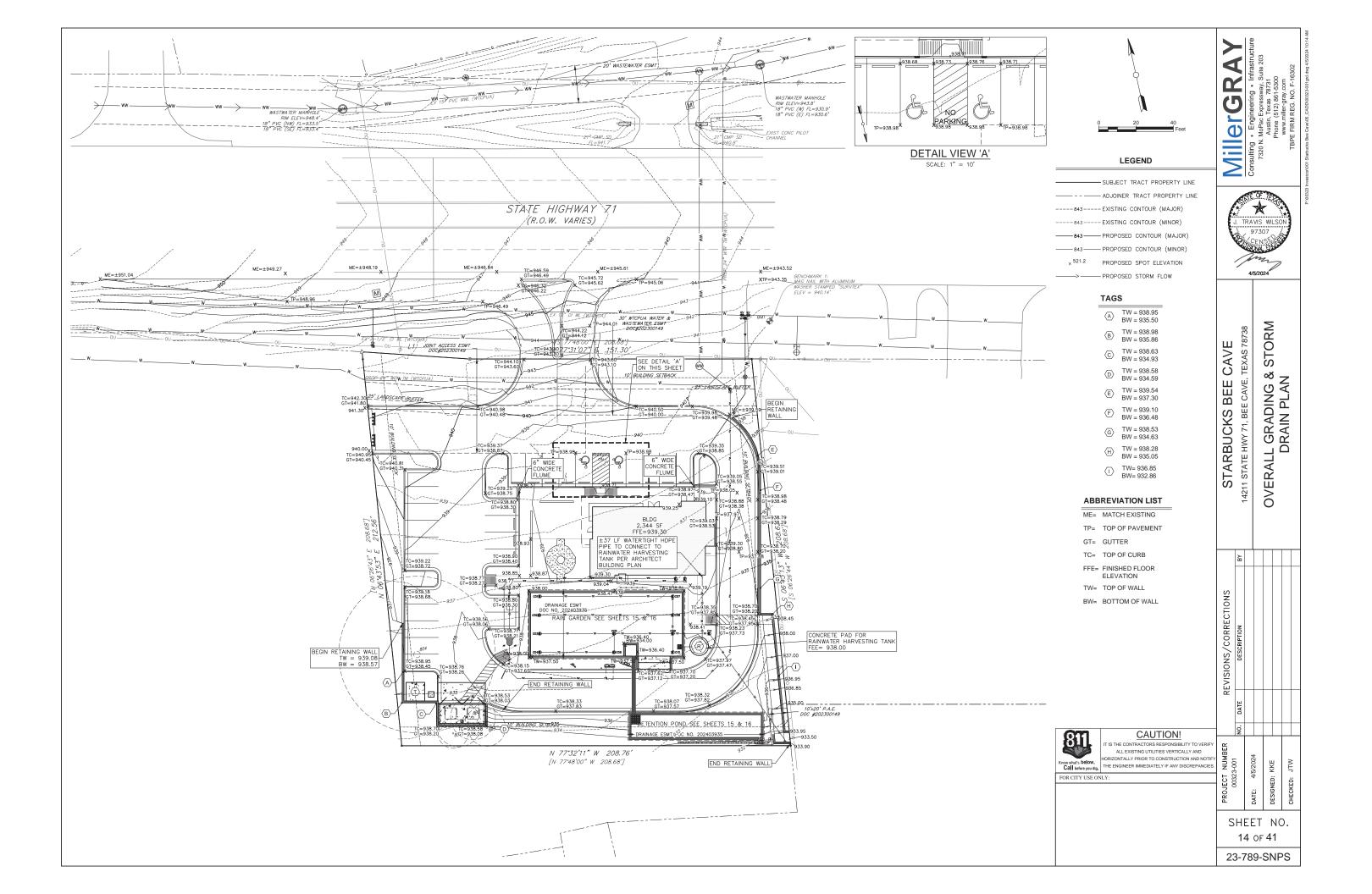
STATE HIGHWAY 71	j
/ (R.O.W. VARIES)	ر
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934~~~	
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EXISTING WQ DRAINAGE AREA MAP	,

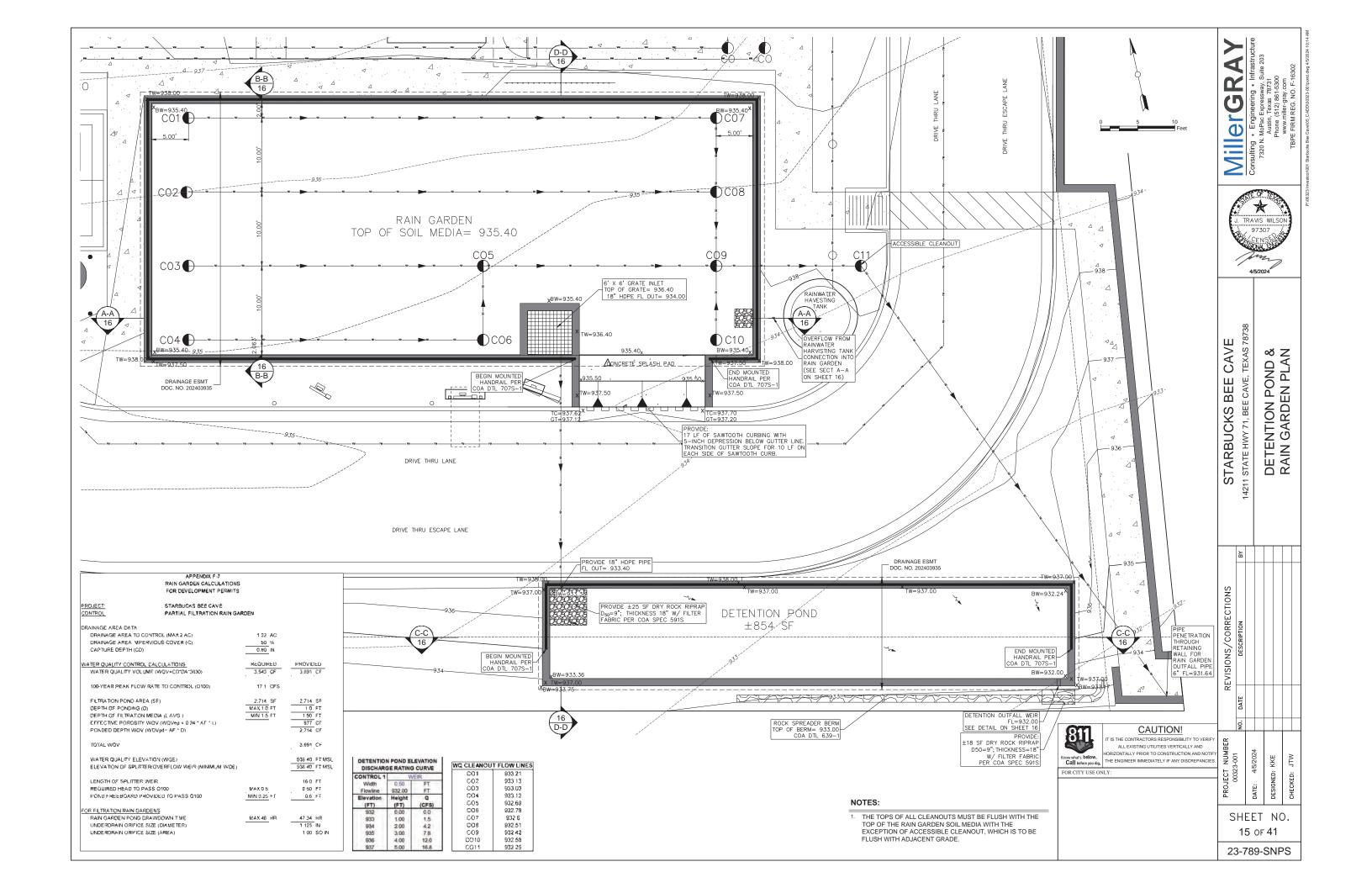






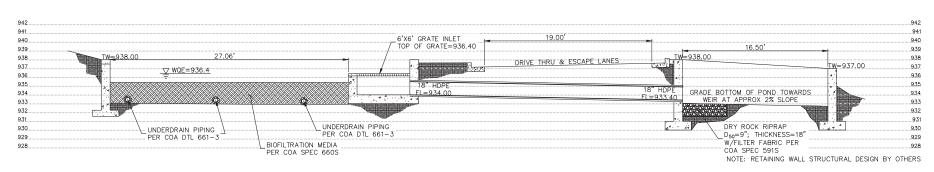




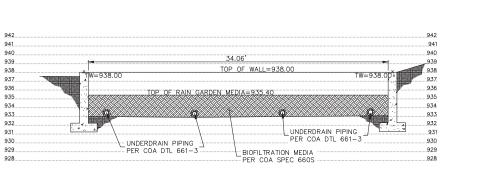


NOTE: RETAINING WALL STRUCTURAL DESIGN BY OTHERS

## C-C DETENTION POND SECTION 15 SCALE: 1" = 5' HORZ SCALE: 1" = 5' HORZ 1" = 5' VERT

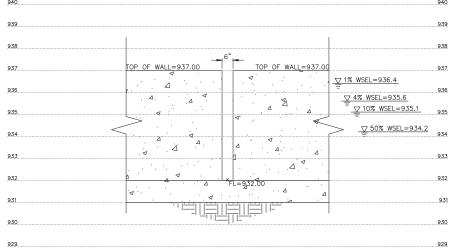


## D-D DETENTION POND SECTION 15 SCALE: 1" = 5' HORZ 1" = 5' VEPT SCALE: 1" = 5' HORZ 1" = 5' VERT



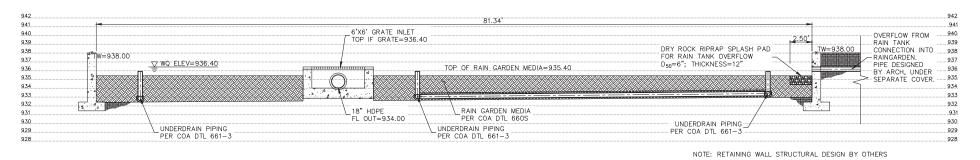
NOTE: RETAINING WALL STRUCTURAL DESIGN BY OTHERS





NOTE: RETAINING WALL STRUCTURAL DESIGN BY OTHERS





A-A	RAIN GARDEN SECTION
15	SCALE: 1" = 5' HORZ



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THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

SHEET NO. 16 of 41

23-789-SNPS

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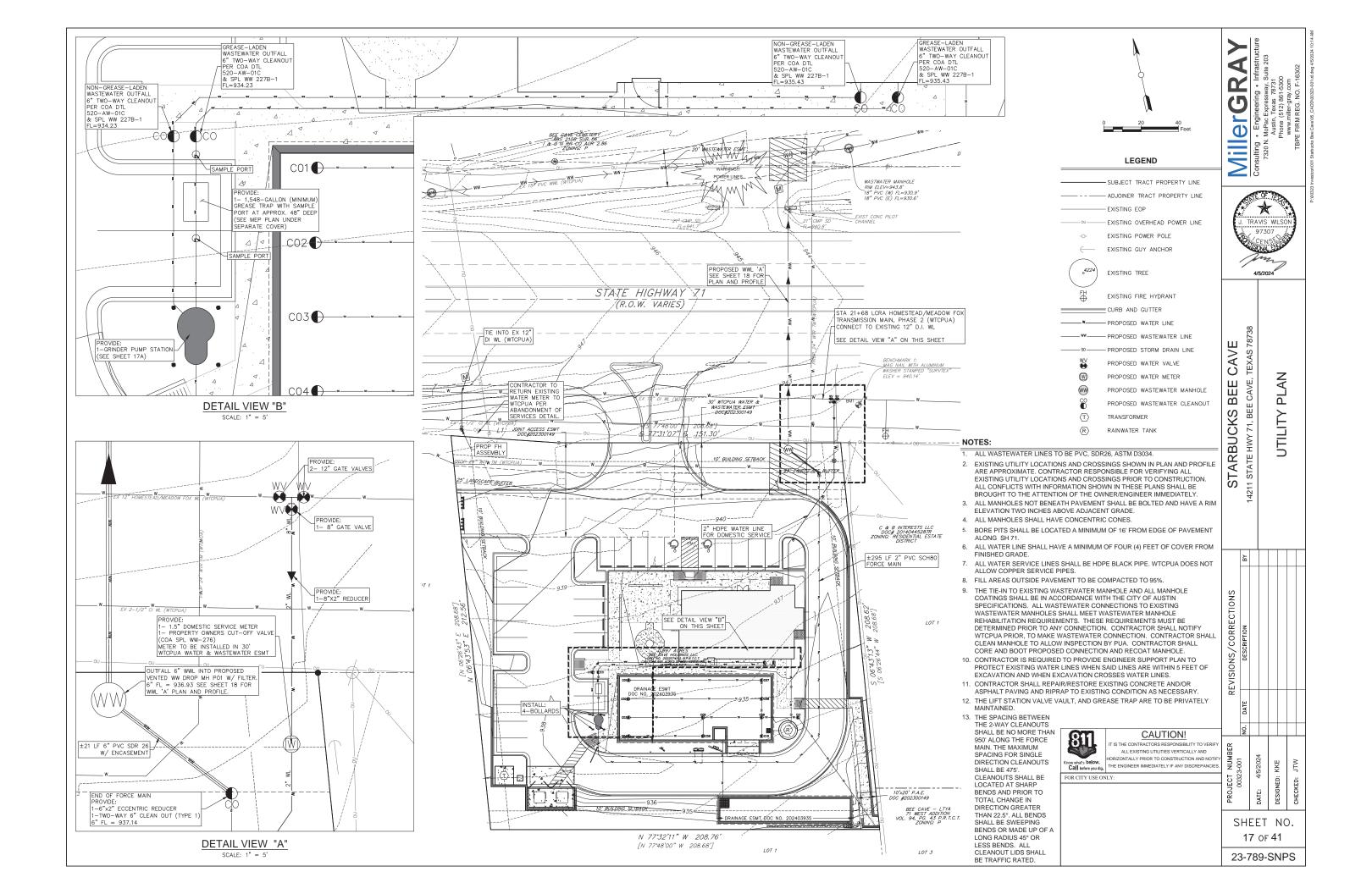
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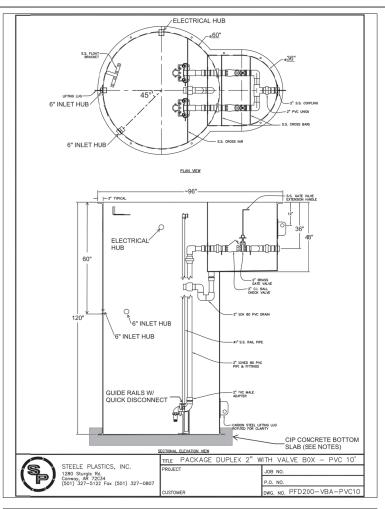
STARBUCKS BEE CAVE

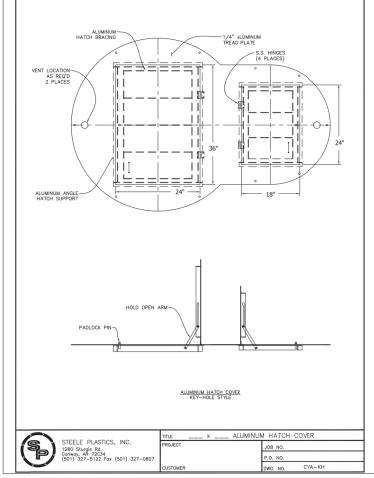
REVISIONS/CORRECTIONS
DESCRIPTION

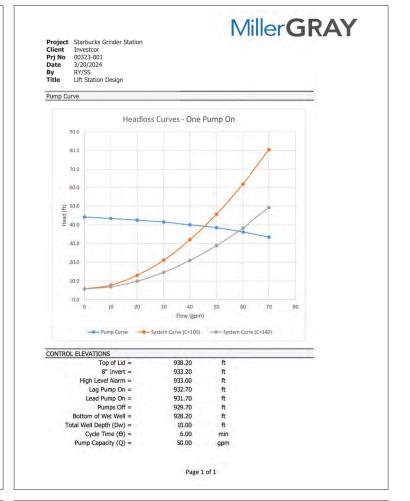
DETENTION POND & RAIN GARDEN SECTIONS

4/5/2024









#### EBARA Submersible Grinder Pumps (residential / commercial) EBG, EBHG Specifications - 3, 5, 7.5 10 HP

Pump Model:
Pump shall be of the centrifugal type with an integrally built-in grinder unit and submersible type motor. The grinder unit shall be capable of macerating all material in normal domestic and commercial sewage, including reasonable amounts of foreign objects such as sanitary napkins, disposable diapers, thin rubber, small wood, platfic and the like to a fine slurry that easily pass through the pump and 2° discharge pipe. Discharge shall be standard with sixted bolt pattern to accomplate either a 2.5° or 3° 150 lb. ANSI flarge.

Operating Conditions:
The pump shall have a capacity of \_\_50 \_ GPM at a total head of \_\_46 \_ feet, and shall use a motor rated at \_\_3 \_ HP and 3450 RPM.

Pump Impeller:
Cast brass and threaded on a stainless steel shaft. The impeller shall be of the recessed vortex type to provide an unobstructed passage through the volute for the ground solids.

Both grinder impellers and shredding ring shall be of 440C stainless steel hardened to 56-60 Rockwell C. The grinder assembly shall consist of a grinder impeller and sheedding ring mounted directly below the voute passage. The grinder impeller is threaded to a stainless steel shaft, locked with a screw and washer. The shreaddingring shall be pressed into an iron holding flange for easy removal. The flange shall be provided with tapped back-off holes so screws ha be used to pust the shreadding. ring from the housing. All grinding of solids shall be from the action of the grinder inpeller against the shredding ring.

Seens: Type 21, dual mechanical seal construction mounted in tandem, shall protect the motor. Primary seal shall be silicon / carbide. Secondary seal shall be silicon / carbide. The seal face shall be lapped to a flatness of one light band. A double electrode shall be mounted in the seal chamber to detect water entering the chamber throught he lower seal. Water in the chamber throught he lower seal. Water in the chamber shall cause a red light to turn on at the control box. This signal shall not stop the notor, but shall act as a warring only, indi-

The pump motor shall be of the submersible type, rated <u>3</u> HP, 3450 RPM. The motor shall be for 60 Hz, <del>cither 208</del>, 230 or 460 volt, single or three-phase operation. Major operating temperature must not exceed Class B ratings.

The stator winding shall be of the open type with Class F insulation. Winding housing shall be filled with clean, high dielectric oil that lubricates bearings and seals, transferring heat from windings and rotor to the outer cast housing.

An upper motor bearing cap shall be a separate casting for easy mounting and replacement. The motor shall have two heavy-duty ball bearings to support the pump shaft, taking radial and thrust loadings. A sleeve guide bushing is mounted directly above the lower seal to take radial load and act as a flame path for the seal chamber. Ball bearings shall be designed for a minimum 50,000 hours B-10 life. The stator shall be pressed into the motor housing. The common motor pump and grinder shaft shall be of 416 SST, threaded to take the pump and grinder impeller.

Motors shall have a heat sensor thermostat attached to the top end of the motor windings to stop the motor if he motor windings temperature reaches 200 degrees F. The high temperature shut-off will cause the pump to cease operation, should a control failure cause the pump to run in a dry wet well. The thermostat shall automatically reset when the midor cools to a

Power Cord:
The motor power cord shall be 10 Ga. SOW/SOWA or SOOW. The cable jacket shall be sealed at the motor entrance by means of a rubber compression washer and compression nut. An epoxy filled tube shall seal the outer cable jacket and individual leads to prevent water from entering the motor housing. Individual conductor strands shall be soldered within the epoxy seal. Cords shall withstand a pull of 300 pounds.

EBARA Fluid Handling www.pumpsebara.com
EBARA (t) 803 327 5005 • (f) 803 327 5097

EBARA Submersible Grinder Pumps (residential / commercial) EBG, EBHG **Electrical Data** Chk'd: Model EBG, EBHG 2,3 5, 7.5 HP, 60Hz, Single Phase, 208/230V Item No. Output (HP) 71/2 2 Plate Volts 208 / 230 <del>208</del> / 230 208 / 230 230 Rating 15.5 / 12.8 <del>-37</del> / 34 44 / 40 Amperes 3450 3450 3450 3450 Insulation Class 150 274 - 324 274 - 324 274 - 324 Capacitor u F Run 30 30 30 30 esistance at Main Coil 1.8 .3 .3 20°C OHMS Aux. Coil 5.1 .8 .8 .8 Start Current A 28 / 25 220 / 200 235 2.37 Service Factor

# EBARA Fluid Handling www.pumpsebara.com EBARA (t) 803 327 5005 • (f) 803 327 5097

#### **GRINDER PUMP STATION NOTES**

- 1. CONTRACTOR SHALL FURNISH AND INSTALL A PACKAGED DUPLEX GRINDER PUMP STATION FROM MANSFIELD PUMP COMPANY, NEW BRAUNFELS, TEXAS, (210) 964-5999
- 2. WET WELL SHALL BE FIBERGLASS WITH INTEGRAL VALVE VAULT IN A KEYHOLE OR FIGURE EIGHT CONFIGURATION.
- 3. WET WELL & VALVE VAULT SHALL CONTAIN ALL NECESSARY INLETS, OUTLETS, GUIDE RAILS, PIPING, VALVES, HATCHES, AND APPURTENANCES.
- 4. PUMPS SHALL BE MANUFACTURED BY EBARA WITH THE FOLLOWING CHARACTERISTICS:
  - a. FLOW = 50 GPM
  - b. HEAD = 46 FT
  - c. MODEL = EBG-31
  - d. IMPELLER = 3.75" DIA
  - e. MOTOR = 3 HP f. PHASE = SINGLE
  - a. VOLTAGE = 230 V
- 5. A PUMP CONTROL PANEL SHALL BE PROVIDED IN A NEVA 4X WITH AUTOMATIC OPERATION, ALTERNATING PUMPS, AUDIO-VISUAL ALARM, FLOATS, AND ALL NECESSARY APPURTENANCES.
- 6. VAULT AND WET WELL SHALL HAVE PVC VENTS WITH ACTIVATED CARBON INSERTS FOR THE CONTROL OF ODOR.
- 7. CIP CONCRETE BOTTOM SLAP SHALL HAVE THE FOLLOWING CHARACTERISTICS:
  - a. CONCRETE CLASS: TXDOT OR COA CLASS C. b. CONCRETE THICKNESS UNDER WET WELL: 9"
  - c. CONCRETE TOTAL THICKNESS: 12" (INCL. 3" EMBEDMENT AROUND FLANGE)
  - d. REBAR SIZE: NO. 5
  - e. REBAR SPACING: 16" O.C.E.W.
  - f. CONCRETE WIDTH: 12" BEYOND WETWELL OUTER DIAMETER
  - g. REBAR CLEAR COVER: 2"



CAUTION! T IS THE CONTRACTORS RES ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION AND NOTII THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

> SHEET NO. 17A of 41

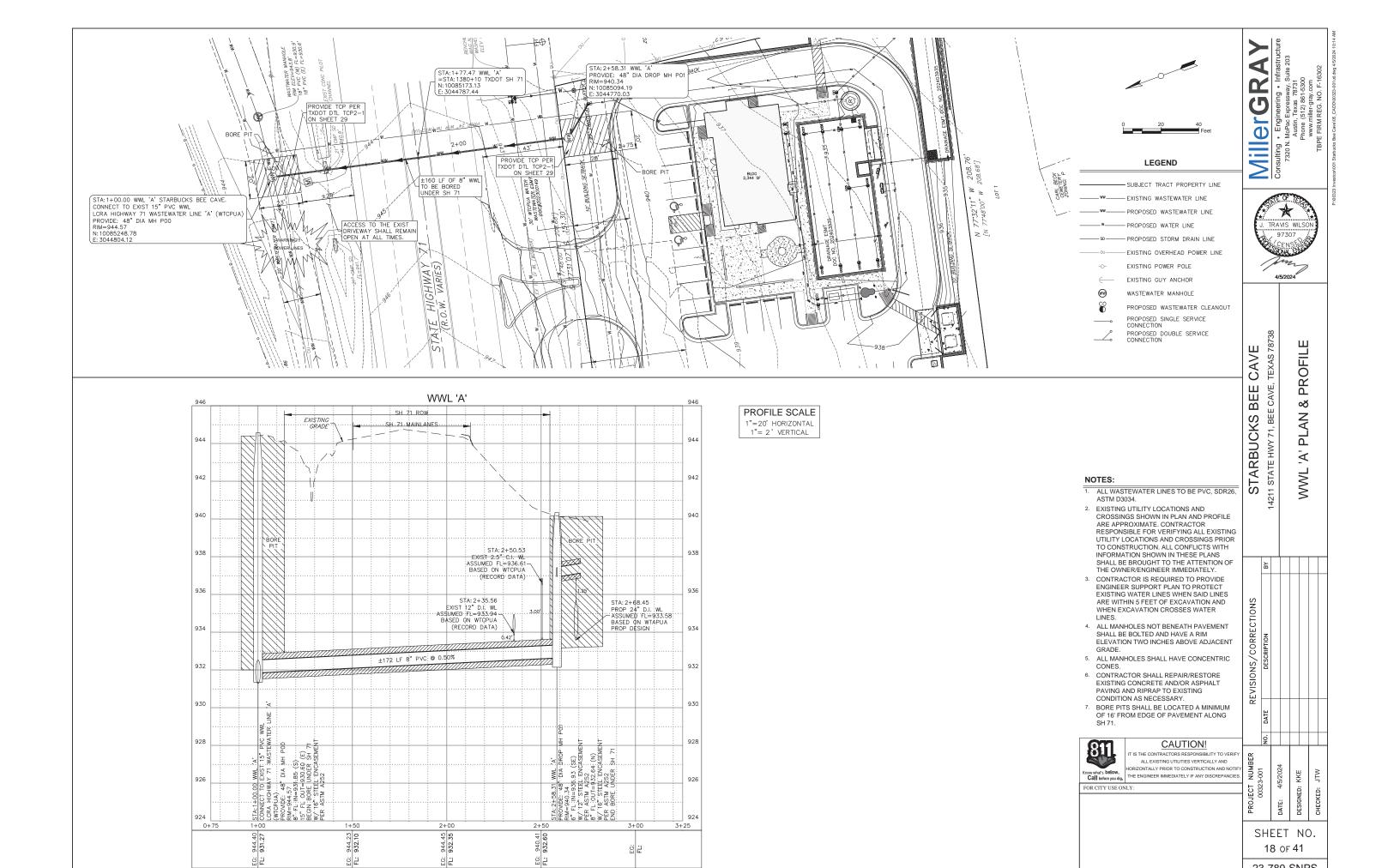
MilerG Consulting · Engineering TRAVIS WILSO 97307 4/5/2024

STATION TEXAS 7 STARBUCKS BEE ( 1 STATE HWY 71, BEE CAVE, T GRINDER PUMP S DETAILS

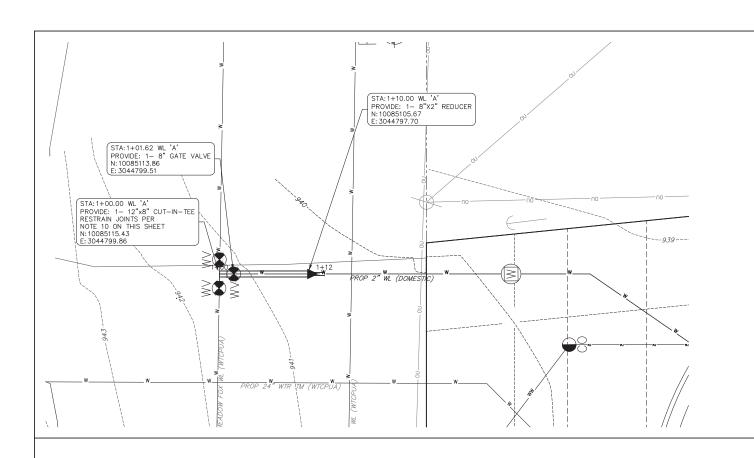
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STARBUCKS

DATE:



18 of 41 23-789-SNPS





PROFILE SCALE 1"= 5' HORIZONTAL 1"= 2' VERTICAL





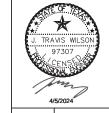
#### **LEGEND**

SUBJECT TRACT PROPERTY LINE ----- EXISTING WATER LINE -W----PROPOSED WATER LINE

OU-----EXIST OVERHEAD POWER LINE

EXIST POWER POLE EXIST GUY ANCHOR

EXISTING FIRE HYDRANT



PROFILI

PLAN & F

ML

CAVE TEXAS 7

STARBUCKS BEE 11 STATE HWY 71, BEE CAVE,

MillerGR/Consulting . Engineering . T

NOTES:

- 1. ALL WASTEWATER LINES TO BE PVC, SDR26, ASTM D3034.
- 2. EXISTING UTILITY LOCATIONS AND CROSSINGS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS AND CROSSINGS PRIOR TO CONSTRUCTION. ALL CONFLICTS WITH INFORMATION SHOWN IN THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER IMMEDIATELY.
- CONTRACTOR IS REQUIRED TO PROVIDE ENGINEER SUPPORT PLAN TO PROTECT EXISTING WATER LINES WHEN SAID LINES ARE WITHIN 5 FEET OF EXCAVATION AND WHEN EXCAVATION CROSSES WATER LINES.
- 4. ALL MANHOLES NOT BENEATH PAVEMENT SHALL BE BOLTED AND HAVE A RIM ELEVATION TWO INCHES ABOVE ADJACENT GRADE.
- 5. ALL MANHOLES SHALL HAVE CONCENTRIC CONES.
- 6. CONTRACTOR SHALL REPAIR/RESTORE EXISTING CONCRETE AND/OR ASPHALT PAVING AND RIPRAP TO EXISTING CONDITION AS NECESSARY.
- 7. BORE PITS SHALL BE LOCATED A MINIMUM OF 16' FROM EDGE OF PAVEMENT ALONG SH 71.
- 8. ALL WATER LINE SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER FROM FINISHED GRADÈ.
- 9. ALL WATER SERVICE LINES SHALL BE HDPE BLACK PIPE.
- 10. A MINIMUM OF 2 PIPE JOINTS TO BE RESTRAINED ALONG THE EXISTING 12"
  WATER LINE ON EITHER SIDE OF THE CUT-IN TEE AND INSTALLED PRIOR TO THE CUT-IN TEE CONSTRUCTION.



#### CAUTION!

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Call before you dig.

THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

DATE: SHEET NO. 19 of 41

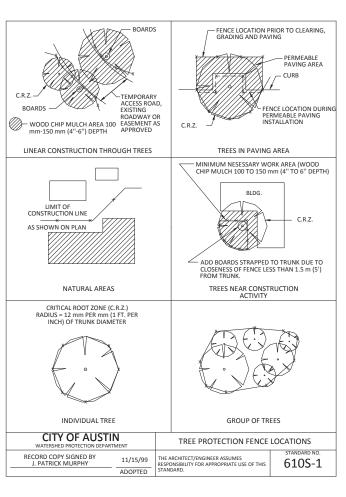
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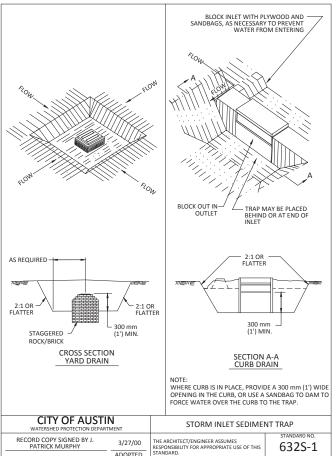
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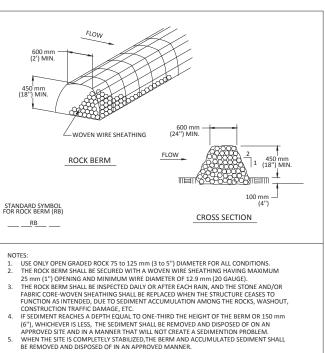
EG: 940.44 FL: 936.33

EG: 941.36 FL: 937.33

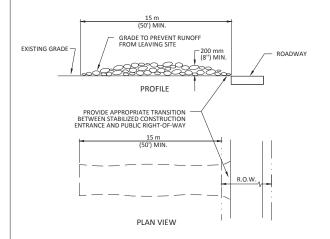
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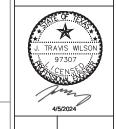






					PREVENT RUNO
CITY OF AUSTIN		ROCK BERM			CITY O
RECORD COPY SIGNED BY MORGAN BYARS	8/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	standard no. 639S-1	-	RECORD COPY SI PATRICK MURPH





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14211

STARBUCKS

/CORRECTIONS

S

DETAILS 10

STANDARD I

Φ

- STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK
- LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50')
  THICKNESS: NOT LESS THAN 200 mm (8").

- MIDTH: NOT LESS THAN 200 HIM (8). WIDTH: NOT LESS THAN 200 HIM (8). WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS
- APPROVED METHODS.

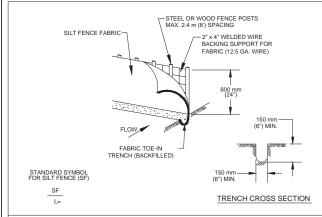
  MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL

  PREVENT
  TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODICTOP
  DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF
  ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED,
  WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED INMEDIATELY.

  DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE.

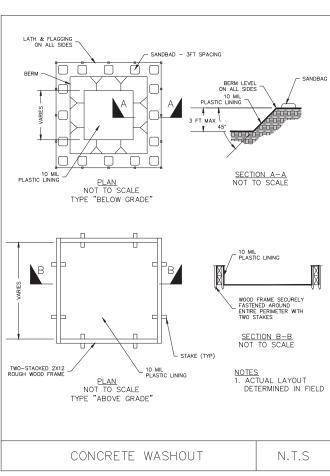
  SWALE TO
  DRECKENT BUINCES EROM, LEADING THE CONSTRUCTIONS.
- NOFF FROM LEAVING THE CONSTRUCTION SITE.

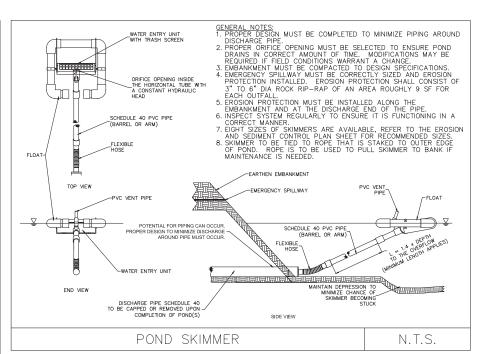
CITY OF AUSTII WATERSHED PROTECTION DEPARTI		STABILIZED CONSTRUCTION	
RECORD COPY SIGNED BY J. PATRICK MURPHY	5/23/00	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS	STANDARD NO. 641S-1
	ADOPTED	STANDARD.	



- 1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.
- 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- 3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
- 5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.
- 6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		SILT FENCE	
RECORD COPY SIGNED BY MORGAN BYARS	09/01/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	standard no. 642S-1



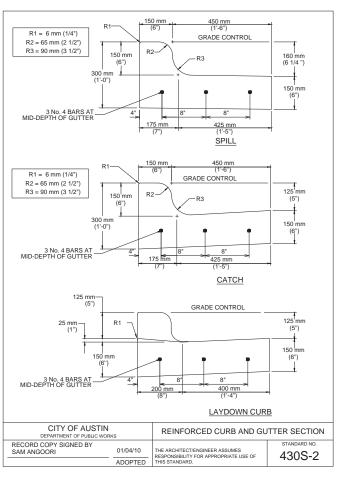


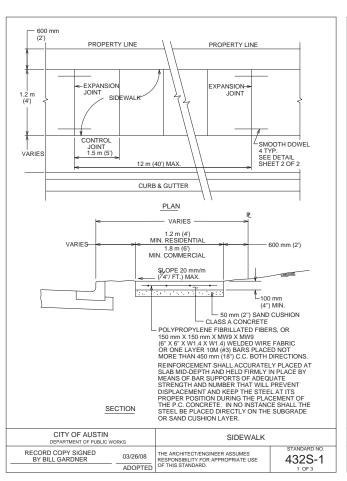


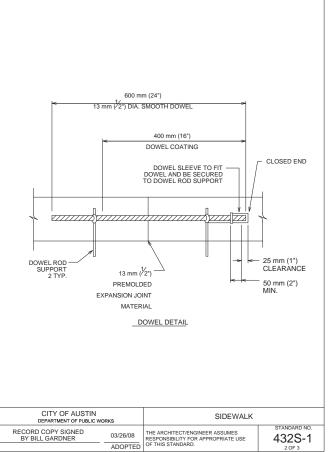
CAUTION! T IS THE CONTRACTORS RE ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NOTI THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

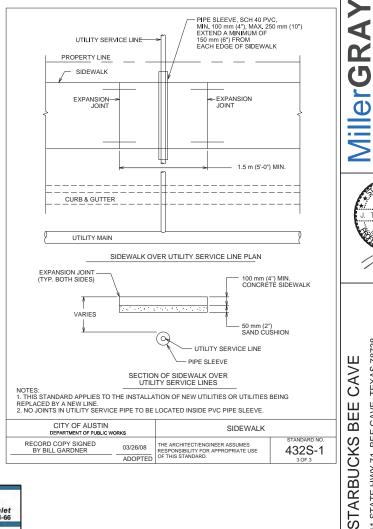
> SHEET NO. 20 of 41

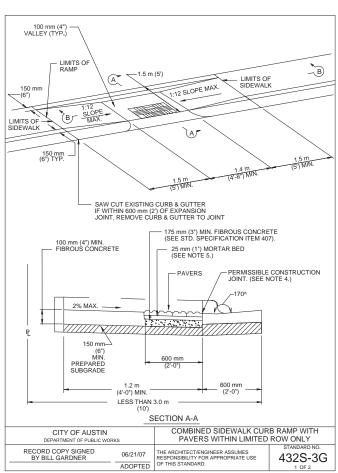
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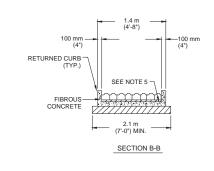












- GENERAL NOTES:

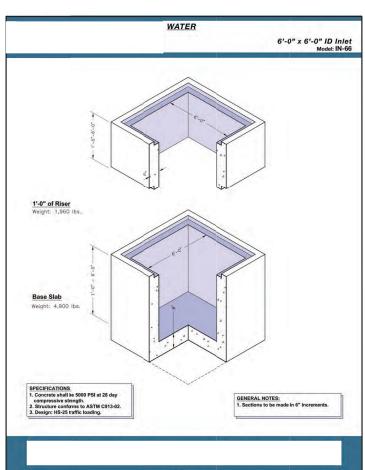
  1. THIS STANDARD IS APPLICABLE FOR RAMP CONSTRUCTION WITHIN RIGHT-OF-WAY OR EASEMENT ONLY.

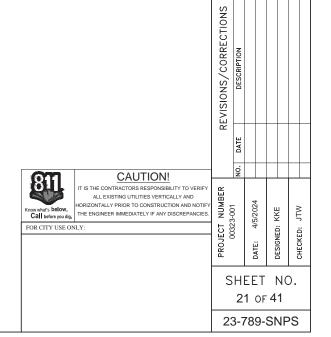
  2. PAVERS WILL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 23 mm (0.9°), A NOMINAL HEIGHT OF 5 mm (0.2°) AND A NOMINAL CENTER TO CENTER SPACING OF 60 mm (2.35°) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (Re: ADAAG SECTION 4.29.2). MATERIAL USED TO EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (Re: ADDAG SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. A BASKET WEAVE PAVER PATTERN SHALL BE USED UNLESS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. PAVER PATTERN VARIES PER MANUFACTURER'S RECOMMENDATIONS. REFER TO STANDARD DETAIL 4325-5 FOR PAVER BASE PREPARATION DETAILS.

  THE CURB, GUTTER AND RAMP SYSTEM SHALL BE CONFIGURED TO MAINTAIN ALL RUNOFF FROM A 25 YEAR FREQUENCY STORM WITHIN THE RIGHT-OF-WAY (DRAINAGE CRITERIA MANUAL SECTION 12.2.B).
- TYPICAL SIDEWALK WIDTHS AND CURB RADII ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE TRANSPORTATION CRITERIA MANUAL FOR SIDEWALK WIDTHS, CURB RADII AND CURB BASIC
- REQUIREMENTS.
  THE PERMISSIBLE CONSTRUCTION JOINT BETWEEN THE PAVERS AND THE ADJOINING 1 SURFACE THE PERMISSIBLE CONSTRUCTION JOINT BETWEEN THE PAVERS AND THE ADJOINING 1 SURFACE SHALL BE LIMITED TO 6 mm (4 ") JOINT SIZE. GAPS LARGER THAN 6 mm 1 (4 ") MUST BE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. ALL JOINTS BETWEEN BRICKS AND ADJOINING SURFACE SHALL BE MORTAR FILLED UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.

  MORTAR SHALL CONFORM TO STD. SPECIFICATION ITEM SECTION 403S.3.5, MORTAR AND GROUT. ALL OTHER CONCRETE SHALL CONFORM TO STD. SPECIFICATION ITEM 403S. CONCRETE FOR STRUCTURES, UNLESS OTHERWISE NOTED.
- CURB RAMPS WITH 100 mm (4") CONCRETE VALLEY MAY ONLY BE USED WHERE PEDESTRIANS WOULD NOT NORMALLY WALK DIAGONALLY ACROSS THE RAMP

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		COMBINED SIDEWALK CURB RAMP WITH PAVERS WITHIN LIMITED ROW ONLY	
RECORD COPY SIGNED BY BILL GARDNER	06/21/07	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE	standard no. 432S-3G
	ADOPTED	OF THIS STANDARD.	2 OF 2





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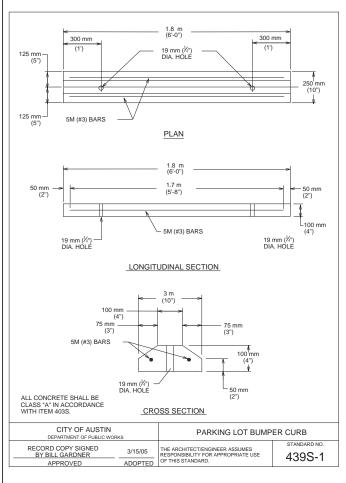
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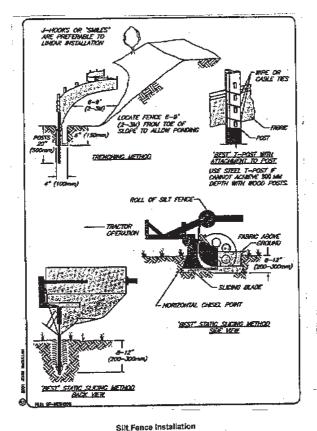
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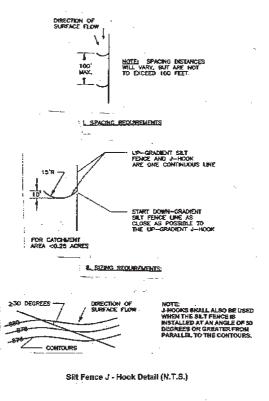
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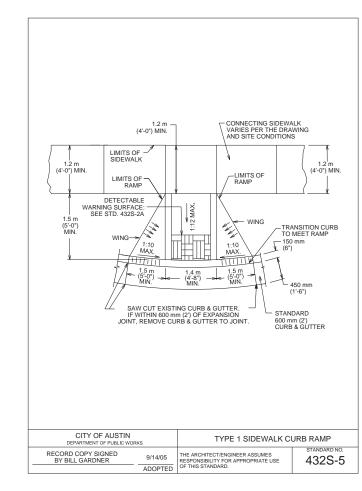
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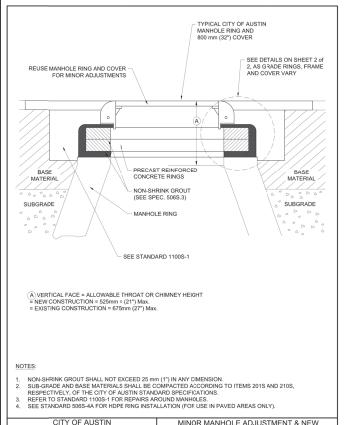
STANDARD I



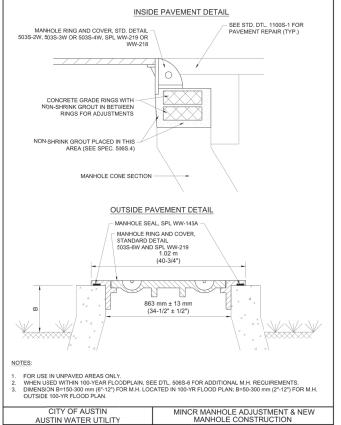




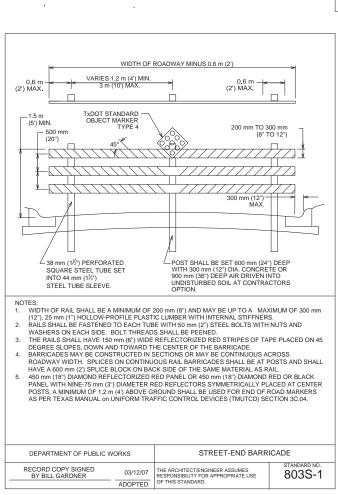


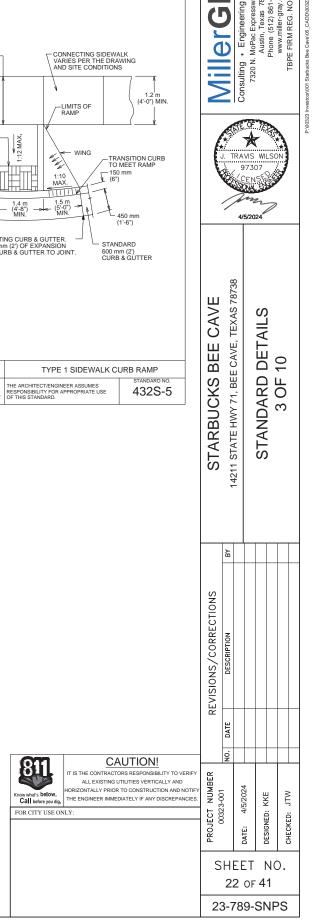


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	MINOR MANHOLE ADJUSTMENT & NEW		
AUSTIN WATER UTILITY	MANHOLE CONSTRUCTION		
RECORD COPY SIGNED  RECORD COPY SIGNED  RECORD COPY SIGNED  RECORD COPY SIGNED  RECORD COPY SIGNED	TOF THIS STANDARD. MODIFICATIONS TO		

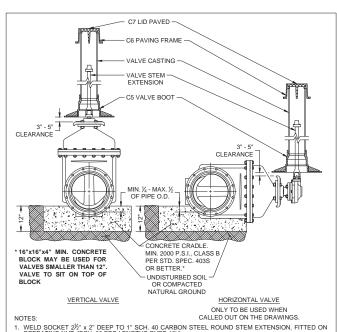


506S-4





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WELD SOCKET 2½" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT, ISCH. 80 FOR LENGTHS OVER 10".]

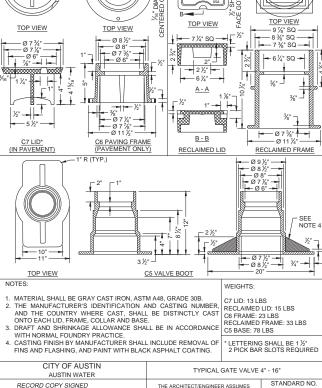
VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.

NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SOUARE 2" LONG WELDED TO TOP OF ROD.

VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3" DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

REGLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED WITH PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALLSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALLSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-3CD. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST

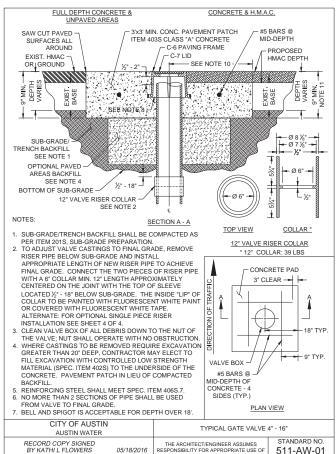
CITY OF AUSTIN AUSTIN WATER		TYPICAL GATE VALVE 4" - 16"		
RECORD COPY SIGNED BY KATHI L FLOWERS			STANDARD NO. 511-AW-01	

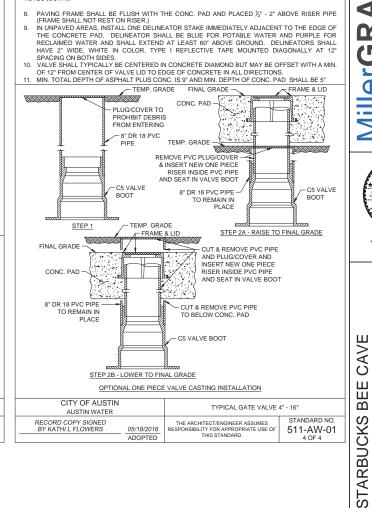


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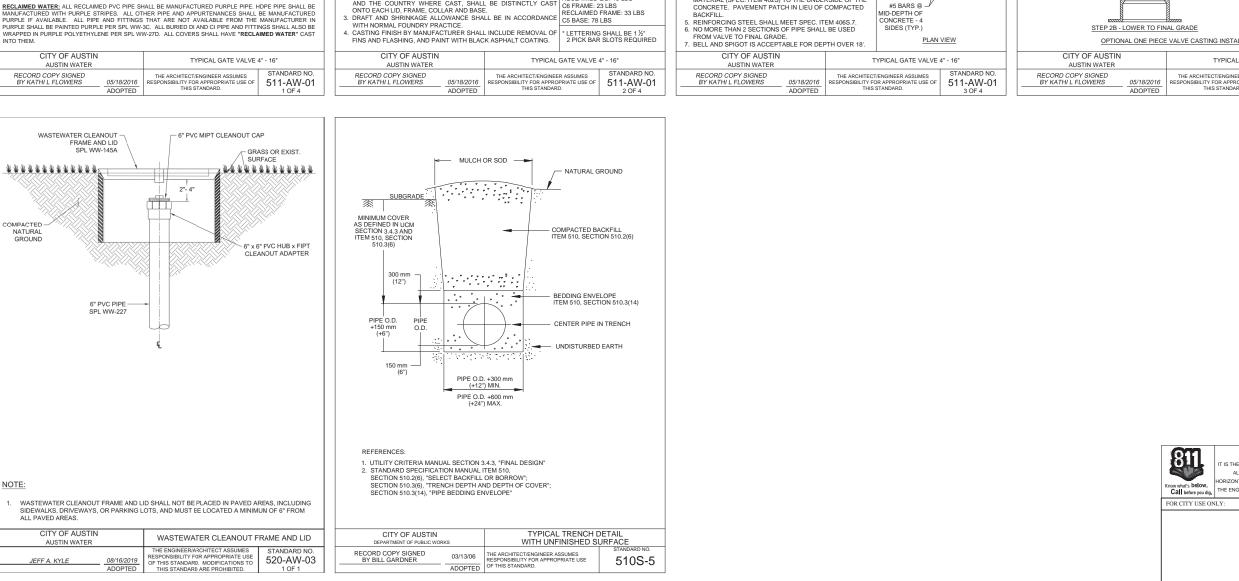
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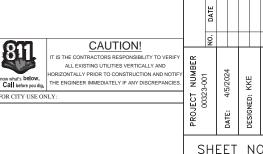
VALVE





NOTES (CON'T):





SHEET NO. 23 of 41

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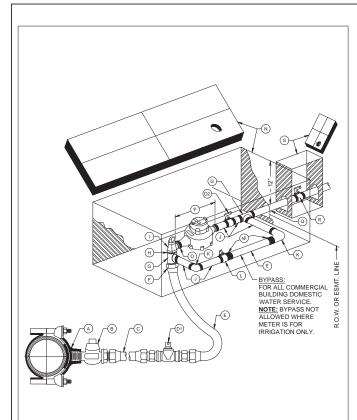
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STATE HWY 71, BEE CAVE,

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/CORRECTIONS



#### CITY OF AUSTIN 1 ½" - 2" METER INSTALLATION SHOWING OPTIONAL BYPASS AUSTIN WATER STANDARD NO THE ARCHITECT/ENGINEER ASSUMES 520-AW-04 ADOPTED

TO BE SET PLUMB

**(** 

GROUNDLINE

GROOVE SEE NOTE 2

THE AREA THREE FEET (3') AROUND THE FIRE HYDRANT SHALL BE CLEAR OF ALL OBSTRUCTIONS GREATER THAN SIX INCHES (6") ABOVE FINAL GRADE.

PAVEMENT

SEE STD. DETAIL 511-AW-01

COMPACTED BASE -

6" FLG x MJ

OPTION 1

CITY OF AUSTIN

AUSTIN WATER

GATE VALVE

18" MIN. FACE OF CURB TO

WATER MAIN

6" SWIVEL TEE -(F.H. TEE)

CURB & GUTTER

C900 PVC PIPE (TYP.) SEE INSTALLATION TYFES

RESTRAINED JOINTS (TYP.)

SEE NOTE 3

CONNECTION TO MAIN

6" MJ x MJ

**OPTION 2** 

GATE VALVE

12"x12"x4" CCNCRETE

BLOCK, CLASS A 24" MIN.

6" MJ TEE

FIRE HYDRANT

6° MJ x MJ

**OPTION 3** 

511-AW-02

GATE VALVE

#### MATERIALS LIST:

- 2" SERVICE CLAMP
- 2" CORPORATION STOP MALE THREAD INLET BY COMPRESSION OUTLET 2" COPPER WATER SERVICE TUBING EXTENDED BEYOND PAVEMENT
- 2" BALL VALVE, SPL WW-275
- D2. 2" BALL VALVE, SPL WW-275
- 2" COPPER SERVICE TUBING
- 2" BRASS COUPLING COMPRESSION TO MALE IPT
- 2" BRASS TEE
- " BRASS CLOSE-NIPPI E
- 2" BRASS CLOSE-NIPPLE
  2" ANGLE METER STOP, SERVICE TUBING INLET x FLANGED OUTLET
  2" BRASS NIPPLE
  2" BRASS ELBOW
- 2" LOCKABLE CURB STOP FEMALE IPT INLET BY COMPRESSION OUTLET
- 2" BRASS COUPLING SERVICE TUBING TO MALE IPT RECTANGULAR METER BOX AND COVER, SPL WW-145A
- BRASS ADAPTER (2"x 1 ½") FOR 1 ½" METER ONLY
  WATER METER, LENGTH 13", (PURCHASED FROM AUSTIN WATER)
  2" COPPER SERVICE TUBING (PRIVATE PLUMBING PER CODE)
  CUSTOMER CUT-OFF VALVE

#### NOTES:

- SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION
- METER INSTALLATION.
  TOP OF BOXES SHOULD BE 1" ABOVE GROUND.
  PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS
  REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL
  ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
  BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR
- TRAFFIC AREA AND SIDEWALK.
  BALL VALVE "D1" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE
- LOCATED MORE THAN 24" HORIZONTALLY FROM METER BOX OR 36" BELOW FINAL GRADE.
- COPPER SERVICE SHALL BE COPPER TUBING SIZE ANNEALED SEAMLESS TYPE "K" MEETING ASTM B88 WITH NO SWEAT OR SOLDERED JOINTS.

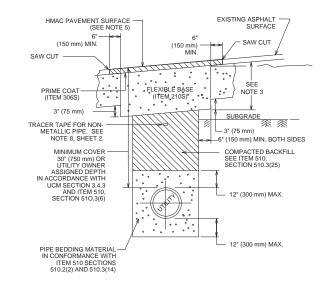
#### RECLAIMED WATER:

FOR RECLAIMED WATER SERVICES AND METERS ALL RECLAIMED TURING SHALL BE MANUFACTURED FOR RECLAIMED WAITER SERVICES AND METERS, ALL RECLAIMED TOBING SHALL BE MANUFACTURED UPPRIET EDBING. ALL OTHER TUBING AND APPURTENANCES SHALL BE MANUFACTURED FUR AVAILABLE. ALL TUBING AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE FOR SPL WAY-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE

CITY OF AUSTIN		1 1/2" - 2" METER INSTAL	LLATION	
AUSTIN WATER		SHOWING OPTIONAL BYPASS		
RECORD COPY SIGNED BY KATHI L FLOWERS 05/18/2016 ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-04 2 OF 2	

# C900 PVC PIPE (TYP. NO MORE THAN 2 3ENDS SHALL BE UTILIZED. BENDS SHALL BE 11 $14^{\circ}$ , 22 $12^{\circ}$ , OR 45°. INSTALLATION ON DEEP WATER MAIN SIDE VIEW RESTRAINED JOINTS (TYP.) SEE NOTE 3 6"x45° BEND MJxMJ RESTRAINED JOINTS (TYP.) SEE NOTE 3 - 18" MIN. OF 6" DI CLASS 350 OR C900 PVC PIPE (TYP.) **BACK VIEW** INSTALLATION ON DEEP WATER MAIN WITH 90° BEND CITY OF AUSTIN FIRE HYDRANT AUSTIN WATER

#### TRENCH REPAIR IN ASPHALTIC SURFACE OVER FLEXIBLE BASE (UCM SECTION 5.8.0)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT		
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE	standard no. 1100S-2	
	ADOPTED	OF THIS STANDARD.	1 OF 2	

1' MIN. FROM BACK OF CURB TO EDGE OF VAULT

INSTALLATION ON WATER MAIN WITH

PRESSURE REDUCING VALVE (PRV)

NO PART OF A HYDRANT OR ITS NOZZLE CAPS SHALL BE WITHIN 6' OF ANY SIDEWALK OR PEDESTRIAN RAME

ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND

ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND A MINIMUM OF 4' FROM RAMPS.

ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH MAY BE INSTALLED DIRECTLY SELOW THE FIRE HYDRANT IN ORDER TO MEET THE REQUIRED BURY DEPTH OF 4' - 5'. BREAK AWAY BOLTS (SHOE TYPES) SHALL BE PROPERLY SPACED AND PLACED. FIRE LINE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO FIRE HYDRANT. JOINTS SHOWN MAY VARY. SEE SPL WAY2T, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.

BELOW EACH HYDRANT, A DRAINAGE PIT 24' IN DIAMETER AND 12' DEEP SHALL BE EXCAVATED AND FILLED WITH COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND UNDER AND AROUND THE BOWL OF THE HYDRANT, AND TO A LEVEL 12' ABOVE THE HYDRANT DRAIN OPENING (SEE STD. SPEC.

510). THE HYDRANT DRAINAGE PIT SHALL NOT BE CONNECTED TO A SANITARY SEWER. THE DRAIN GRAVEL SHALL BE COVERED WITH FILTER FABRIC PER STD. SPEC. 620S. FOR PRV, GRAVEL SHALL EXTEND UNDER

SHALL BE COVERED WITH FILER FABRIC PER STID. SPEC. SOLD. FOR PRY, GANVEL SHALL EXTEND UNDER THE PREVAULT 2"MIN. DEPTH UNDER THE VAULT AND 6" MIN. BEYOND VAULT. FOR FIRE HYDRANT LEADS AT A MAIN OUTLET LARGER THAN 6" DAMETER, OUTLET SHALL BE FLANGED AND A FLG. X=LO REQUICER SHALL BE INSTALLED DIRECTLY ON THE OUTLET. WRAP 8 MIL. POLY-FLM WRAP ON ALL BURIED PIPE AND FITTINGS. FOR HYDRANTS WITH PRY. CLASS III RCP VAULT 60" MIN. 1D. WITH REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING) WITH COA FRAME AND 32" COVER WITH LETTERING MODIFIED FORWATER.

FIRE HYDRANT

511-AW-02

NOTES: APPLICABLE TO ALL INSTALLATION TYPES.

CITY OF AUSTIN

AUSTIN WATER

511-AW-02

SEE NOTE 7

#### NOTES:

- THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.+
- IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMAC. TEMPORARY MIX SHALL BE PLACED OVER FLEXIBLE BASE.
  - ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3" (75 mm), BUT IN NO CASE LESS THAN 12" (300 mm).
- DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" (250 mm) OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
- REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
  a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL
- b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL
- STREETS. SEE ITEM 340S, SECTION 340S.4. CLASS 'J' PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE
- TACK COAT ALL EXPOSED EDGES AND SURFACES (SPEC ITEM 307S).
- AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510, 2(8)(K)5, FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) MINIMUM OF 12 (300 min) BELOW THE SUBGRADE, OR A MINIMUM OF 12 (490 min) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT		
RECORD COPY SIGNED BY KERI JUAREZ 01/04.		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE	standard no. 1100S-2	
	ADOPTED	OF THIS STANDARD.	2 OF 2	

#### Water Meter Length and Total Length with Gaskets Meter Length With Gaskets Description 5/8" PB BL 3G 7.5" inches 7.75" inches 3/4" PB BL 3G 7.5" inches 7.75" inches 1" PB BL 3G 10.75" inches 11" inches 13" inches 1.5" FLG MS 3G 13.25 inches 2" FLG MS 3G 17" inches 17.25 inches 2" Octave Meter 10" inches 10.25 inches

## WTCPUA METER LENGTH DIMENSION DETAIL



CAUTION! — BILITY TO VERIE ALL EXISTING UTILITIES VERTICALLY AND IORIZONTALLY PRIOR TO CONSTRUCTION AND NOTI

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THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

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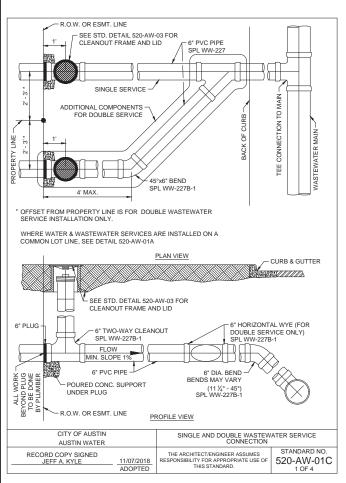
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STANDARD I 5 OF 1



SMOOTH TRANSITION FROM REGULAR GUTTER TO CURB OPENING DRAIN INTO RAIN GARDEN

4" FLEVATION CHANG

FROM BACK OF INLET TOP OF SPLASHPAD 3" x 5" ROCK OF

**ISOMETRIC** 

CROSS SECTION B-B

RAIN GARDEN

RAIN GARDEN TYPICAL INLET DETAIL 2

SPD 660-4

FLAGSTONE SPLASH PAD

3" x 5" ROCK OR FLAGSTONE SPLASH PAD

PLAN VIEW

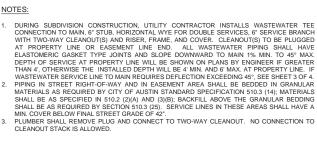
SMOOTH TRANSITION FROM REGULAR GUTTER TO CURB OPENING DRAIN INTO RAIN GARDEN

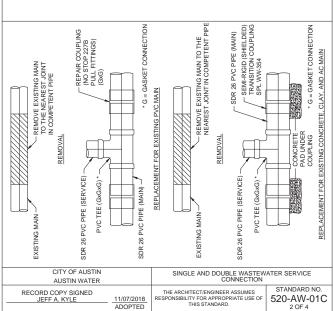
**OPENING** 

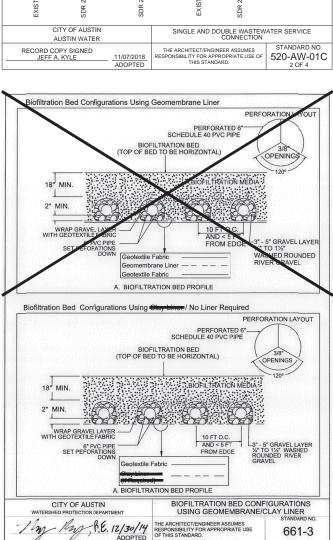
CROSS SECTION A-A

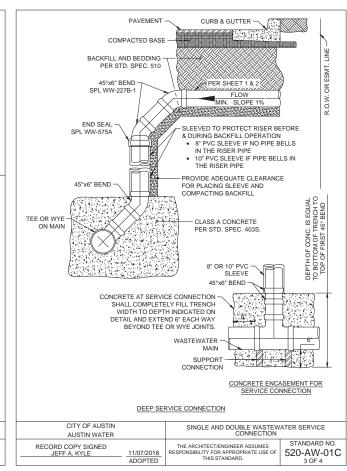
CITY OF AUSTIN

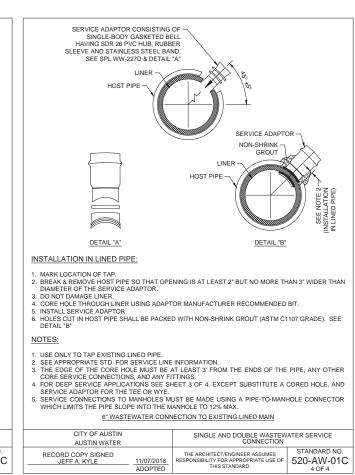
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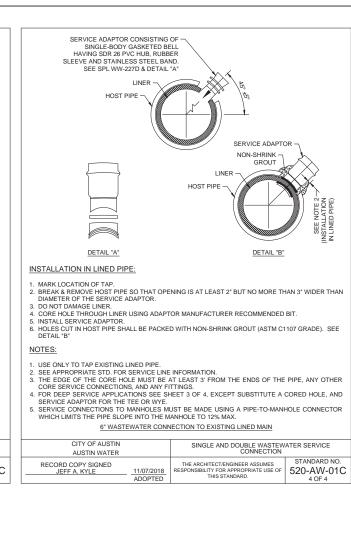


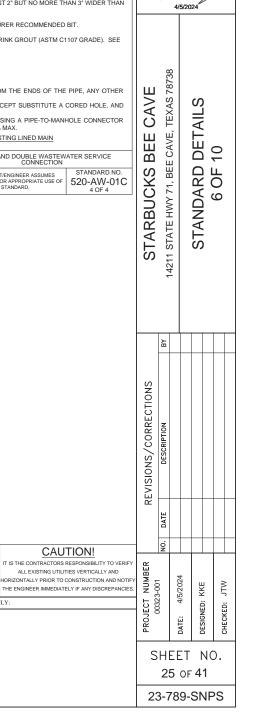












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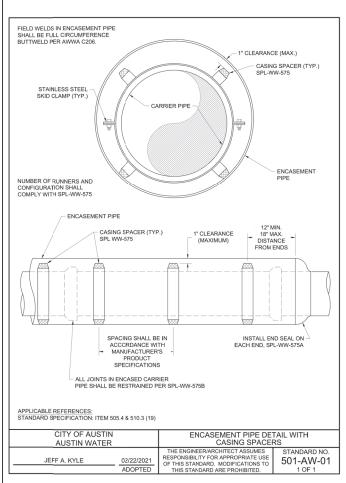
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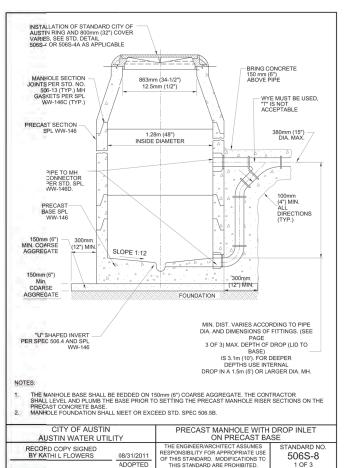
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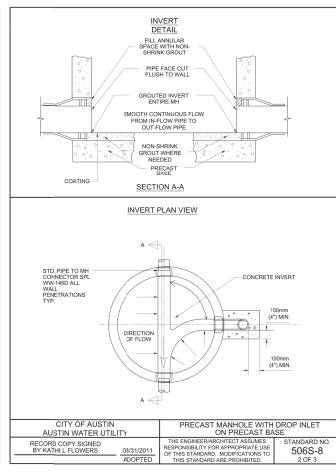
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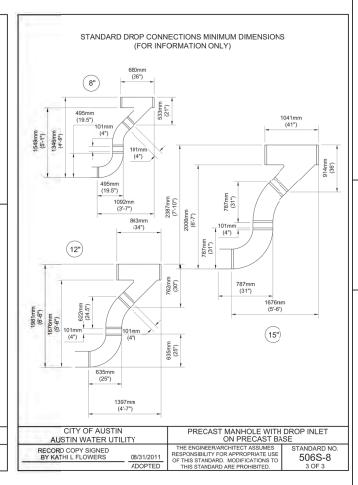
TRAVIS WILSO

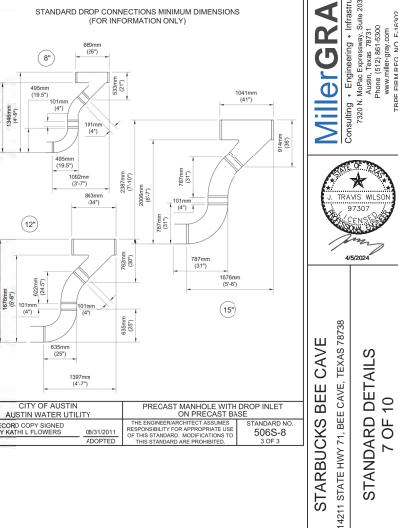
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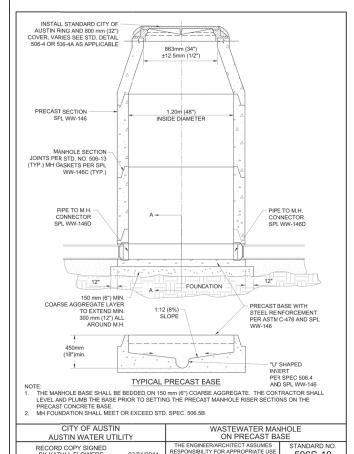












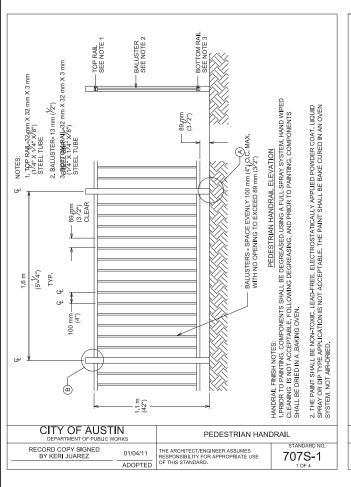


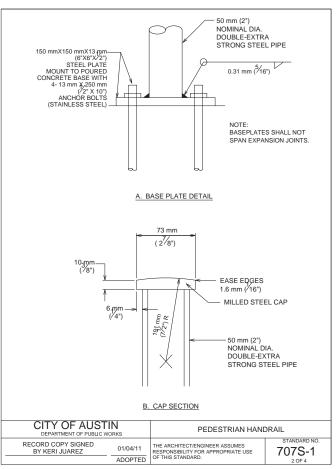
CAUTION! IT IS THE CONTRACTORS RESP ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION AND NOTI Know what's **below.**Call before you dig. THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.

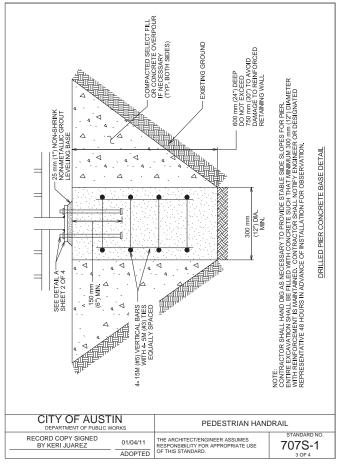
DATE: SHEET NO. 26 of 41

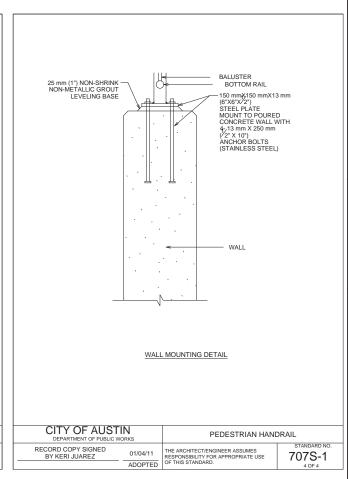
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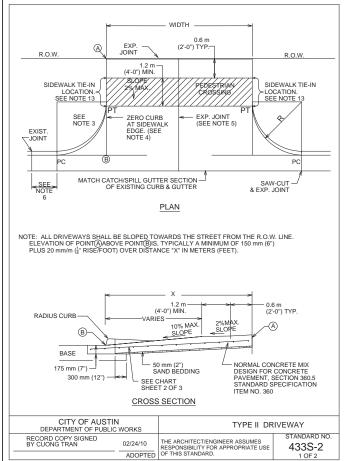
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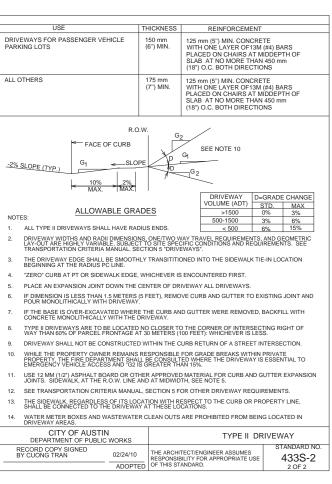


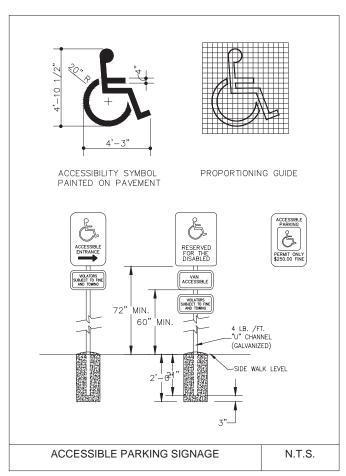


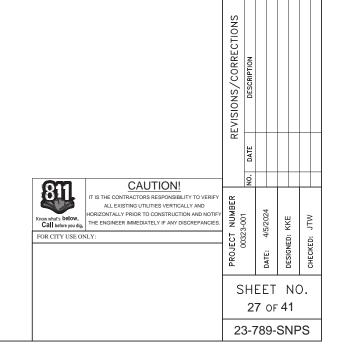












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TRAVIS WILSO

4/5/2024

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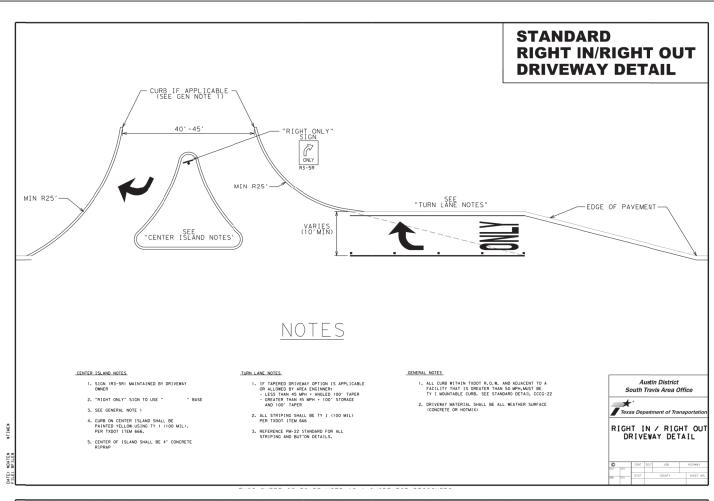
STARBUCKS

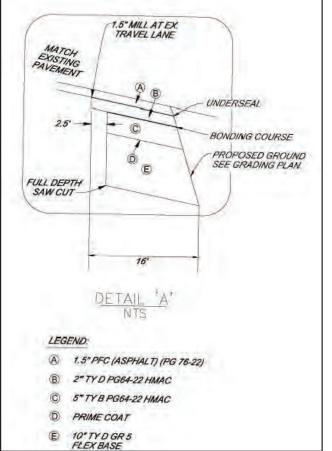
TEXAS.

STATE HWY 71, BEE CAVE,

14211

STANDARD DETAIL 8 OF 10





TCP	TITLE	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
1-1	CONVENTIONAL ROAD SHOULDER WORK		1	1		
1-2	ONE-LANE TWO-WAY TRAFFIC CONTROL		1	✓		
1-3	TRAFFIC SHIFTS ON TWO-LANE ROADS		1	✓		
1-4	LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS		1	✓		
1-5	LANE CLOSURES FOR DIVIDED HIGHWAYS			✓		
1-6	AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)		1	✓		
2-1	CONVENTIONAL ROAD SHOULDER WORK		1	✓	✓	√
2-2	ONE-LANE TWO-WAY TRAFFIC CONTROL		1	✓	✓	
2-3	TRAFFIC SHIFTS ON TWO-LANE ROADS				1	√ (2-3b ONL)
2-4	LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS			✓	✓	
2-5	LONG TERM LANE CLOSURES MULTILANE CONVENTIONAL ROADS				1	✓
2-6	LANE CLOSURES ON DIVIDED HIGHWAYS				✓	✓
2-7	DIVERSIONS AND NARROW BRIDGES				✓	✓
2-8	LONG TERM ONE-LANE TWO-WAY CONTROL				✓	✓
3-1	MOBILE OPERATIONS UNDIVIDED HIGHWAYS	✓				
3-2	MOBILE OPERATIONS DIVIDED HIGHWAYS	✓				
3-3	MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/REMOVAL	✓				
3-4	MOBILE OPERATIONS FOR ISOLATED WORK AREAS UNDIVIDED HIGHWAYS	1				
3-5	MOBILE OPERATIONS HERBICIDE TRUCK OPERATIONS	✓				
5-1	SHOULDER WORK FOR FREEWAYS / EXPRESSWAYS		√ (5-1a only)	√ (5-1b only)	√ (5-1b only)	
6-1	FREEWAY LANE CLOSURES		1	✓	✓	
6-2	WORK AREA NEAR RAMP		✓	✓	✓	
6-3	WORK AREA BEYOND RAMP		✓	✓	✓	
6-4	WORK AREA AT EXIT RAMP		✓	✓	✓	
6-5	WORK AREA BEYOND EXIT RAMP		✓	√	✓	
6-6	FREEWAY CLOSURE		✓	√	✓	
6-7	SHORT DURATION FREEWAY CLOSURE SEQUENCE		1			
6-8	WORK IN EXIT GORE FOR ADT GREATER THAN 10,000		1	✓		
6-9	WORK IN EXIT GORE FOR ADT LESS THAN 10,000		✓	✓		
7-1	TRAFFIC CONTROL DETAILS FOR SURFACING OPERATIONS				1	1

SHORT DURATION

Work that occupies a location up to 1 hour.

SHORT TERM STATIONARY

INTERMEDIATE TERM STATIONARY

Work that occupies a ocation more than 3 days.

NOTE
THIS SHEET IS A WORKSHEET FOR PLAN
PREPARATION ONLY. IT IS NOT TO BE
INCLUDED IN P.S.&E's.



SELECTION WORKSHEET

LAST 6 m (20) OF DIVERSION NOT TO EXCEED 1% GRADE
DIVERSION
STABILIZED SLOPE
CHANNEL GRADE= 0%
OUTLET OUTLET LEVEL SPREADER
1.8 m (6') MIN.
SECOND STRIP  BOTH STRIPS OF PROTECTIVE  MATERIAL OVER EROSION STOP  100 mm (4*) MIN.
PROTECTIVE MATERIAL  FOR STAPLE REQUIREMENTS SEE STANDARD & SPECIFICATIONS SPREADER  FOR PROTECTIVE MATERIAL
450 mm (6") MIN.
STANDARD SYMBOL 0.3 m FILTER FABRIC (U.V.) CROSS SECTION

PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		LEVEL SPREADER	
RECORD COPY SIGNED BY J. PATRICK MURPHY	3/27/00	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF	STANDARD NO. 634S-1
	ADOPTED	THIS STANDARD.	

(A)	1.5" PFC (ASPHALT) (PG 76-22)	
(B)	2" TY D PG64-22 HMAC	
0	5* TY B PG64-22 HMAC	
(D)	PRIME COAT	
<b>(E)</b>	10" TY D GR 5 FLEX BASE	
	LAST 6 m (20) OF DIVERSION NOT TO EXCEED 1% GRADE	
RSION —	LEVEL SPREADER STABILIZED SLOPE	
UNDISTURE		
	LEVEL SPREADER	
SECOND:  FIRST STR ECTIVE MATI  LEVEL LI SPRE/	IP OF HOLE THE SET OF	
RAL NOTES:  VEL SPREAD  DNSTRUCT L  DIMENT-FRE  VEL SPREAD  MATTING ER  LT TRENCH (  ITEND THE E  R OTHER APP  E ENTIRE LE  R OTHER APP  E ENTRANC  ITERING SPR  ORM RUNOF	ERS SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE ENGINEER. EVEL LIP ON ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF IE RUNOFF (CONVERTING CHANNEL FLOW TO SHEET FLOW). BY SHALL BE CONSTRUCTED ON UNDISTURBED SOIL (NOT ON FILL). DSION STOP SHALL BE PLACED VERTICALLY AND AT LEAST 150 mm (6") DEEP IN A 3.m (1) BACK OF AND PARALLEL WITH THE LIP. THIS EROSION STOP SHALL NITRIE LENORTH OF THE LEVEL LIP AND SHALL BE TRIMMED AFTER BACKFILLING SOIL, SO THAT THE UPPER EDGE IS FLUSH WITH THE SOIL SURFACE. VEL LIP AREA SHALL BE PROTECTED BY PLACING 2 STRIPS OF JUTE, EXCELSIOR PROVED PROTECTIVE MATERIAL AS SHOWN ABOVE. E CHANNEL SHALL NOT EXCEED A 1% GRADE FOR AT LEAST 6 m (20) BEFORE EADER. F CONVERTED TO SHEET FLOW SHALL OUTLET ONTO STABILIZED AREAS. WATER RECONCENTRATED IMMEDIATELY BELOW THE POINT OF DISCHARGE.	

CAUTION! IT IS THE CONTRACTORS RESPONSIBILITY TO VERIF ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION AND NOTI Know what's **below.**Call before you dig.
THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES

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FY IFY S.	PROJECT NUMBER 00323-001	DATE: 4/5/2024	DESIGNED: KKE	снескер: ЈТW		
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. TRAVIS WILSO

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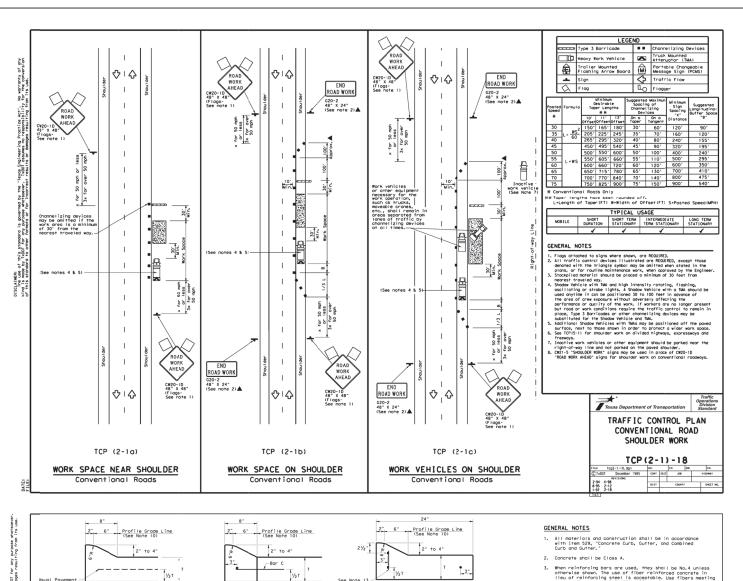
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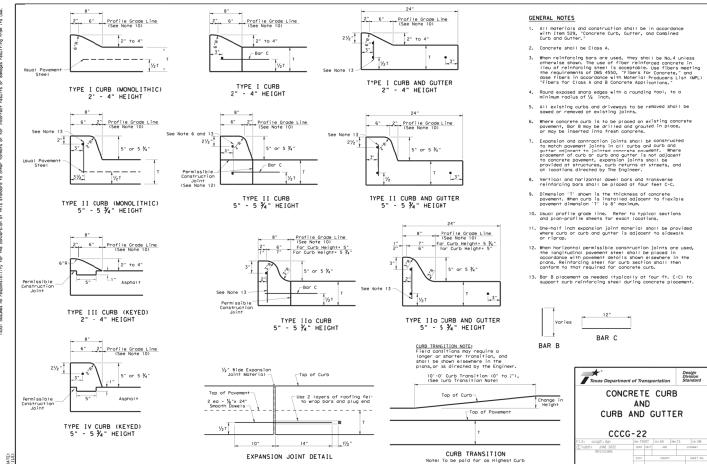
STARBUCKS BEE CAVE

REVISIONS/CORRECTIONS
DESCRIPTION

STANDARD DETAILS 9 OF 10

28 of 41







CAUTION!

811

CONTROL JOINT (DOUBLE LAYER)

5 WALL CORNER BAR DETAIL

(SINGLE \_AYER)

SITE WALL JOINT DETAIL

3 SPLASH PAD SECTION

Engineers Inspectors & Surveyors

AUSTIN, TEXAS

W. Highway Bee Cave, Texas

14211

FROJECT

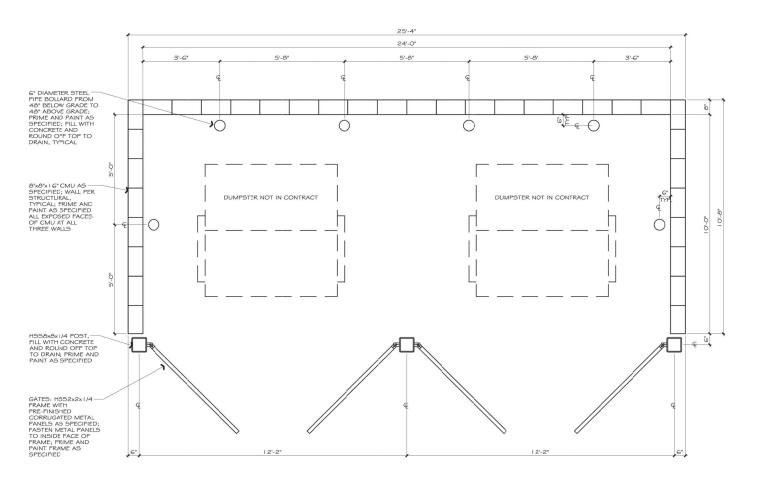
ENVIROPLAN ARCHITECTS PLANNERS

(512) 476-0622



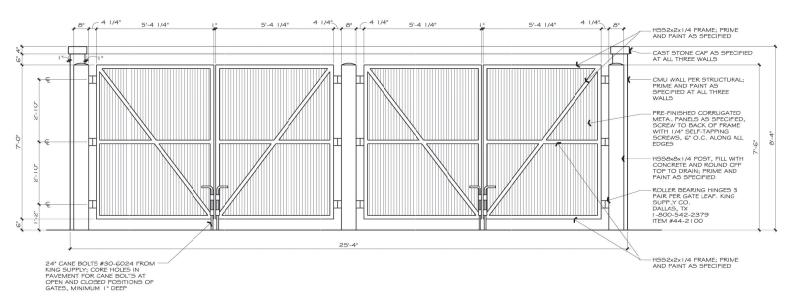
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**S3.1** 30 OF 41



## DUMPSTER ENCLOSURE

SCALE: 1/2" = 1'-0"



## DUMPSTER ENCLOSURE ELEVATION

SCALE: 1/2" = 1'-0"



ENVIROPLAN ARCHITECTS PLANNERS

4942 HWY 290 W AUSTIN, TEXAS

78735 (512) 476-0622

W. Highway
Bee Cave, Texas

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PROJECT

42

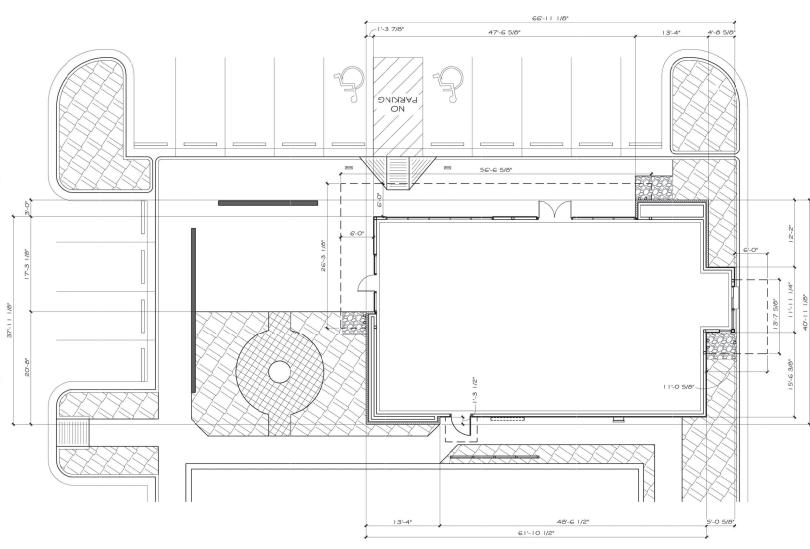
REVISIONS



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DATE

31 OF 41 **A**1



### F L O O R PLAN SCALE: 1/8" = 1'-0"





PLAN NORTH TRUE NORTH

LINEAR GLAZING FRONTAGE FOR NORTH ELEVATION FACING R.O.W. = 37'-3" (55.7%) LINEAR GLAZING

FACADE MATERIAL CALCULATIONS							
TOTAL FACADE AREA MASONRY (BRICK + STUCCO) GLAZING							
NORTH ELEVATION	1,222 S.F.	360 S.F. (29.5%)	327 S.F. (26.8%)				
WEST ELEVATION	821 S.F.	538 S.F. (65.5%)	93 S.F. (11.9%)				
SOUTH ELEVATION	1,282 S.F.	1,171 S.F. (91.3%)	10 S.F. (0.8%)				
EAST ELEVATION	801 S.F.	599 S.F. (74.8%)	38 S.F. (4.7%)				
ALL ELEVATIONS	4,126 S.F.	2,668 S.F. (64.7%)	468 S.F. (11.3%)				

#### ARCHITECTURAL ELEMENTS:

#### HIGH-QUALITY DESIGN ELEMENTS:

- CANOPIES WITH 6'-0" DEPTH.
  OUTDOOR PATIO AT LEAST 250 S.F. AND EXCLUSIVE OF SIDEWALKS.
  DISPLAY WINDOWS AT LEAST 7'-0" IN HEIGHT AND MEASURING NO MORE THAN 3'-0" FROM THE GROUND.
- FROM THE GROUND.

  INTEGRATED KNEE WALLS WITH LANDSCAPE AND SITTING AREA.

- AT LEAST 50% OF THE PARKING AREA ON THE SAME LOT TO THE SIDE OR REAR OF ALL
- BUILDINGS.
  PATIO FOR OUTDOOR DINING EQUIVALENT TO 5% OF THE SITE OR 30% OF PLANNED RESTAURANT DINING AREA. THE OUTDOOR PATIO IS 500 5.F, WHICH IS 67% OF THE 750 5.F, INTERIOR RESTAURANT DINING AREA. ADDITIONAL OFF-STREET CONNECTION WITH NEISHBORING PROPERTY. ALL DRIVE-THRU LANES AND WINDOWS LOCATED BEHIND OR TO THE SIDE OF ALL BUILDINGS AND NOT BETWEEN PUBLIC OR PRIVATE RIGHT-OF-WAY AND THE FRONT OF THE BUILDING OR AN OPEN SPACE.

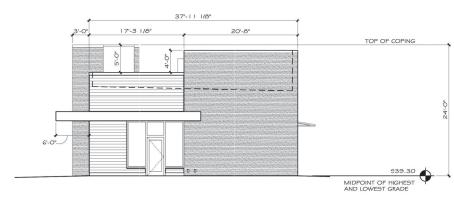
#### SUSTAINABILITY ELEMENTS:

- ALTERED TOPOGRAPHY AND ELEVATION OF THE SITE BY NO MORE THAN 4'-0' ACROSS 80% OF THE SITE.
  INCORPORATION OF A RAINWATER HARVESTING SYSTEM CAPABLE OF CAPTURING A ONE INCH RAINFALL EVENT FOR AT LEAST 25% OF THE ROOF AREA.

4'-8 5/8" 1'-3 7/8" TOF OF COPING G'-O"

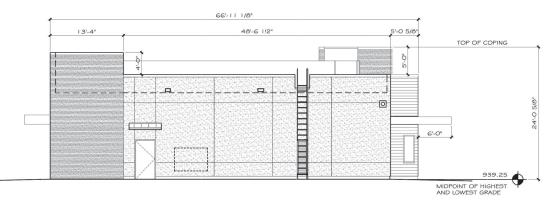
## ELEVATION NORTH

SCALE: 1/8" = 1'-0"



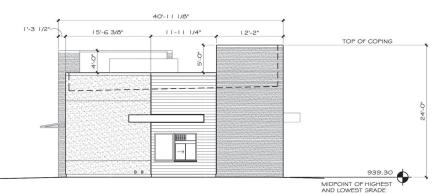
### WEST ELEVATION

SCALE: 1/8" = 1'-0"



### SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



# EAST ELEVATION

SCALE: 1/8" = 1'-0"



ENVIROPLAN ARCHITECTS PLANNERS

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(512) 476-0622

Highway 7

PROJECT

142

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1.22.24

1.22.24

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A2 32 OF 41

78735 (512) 476-0622

14211 W. Highway 71 Bee Cave, Texas

PROJECT

ENWIROPLAN ARCHITECTS PLANNERS

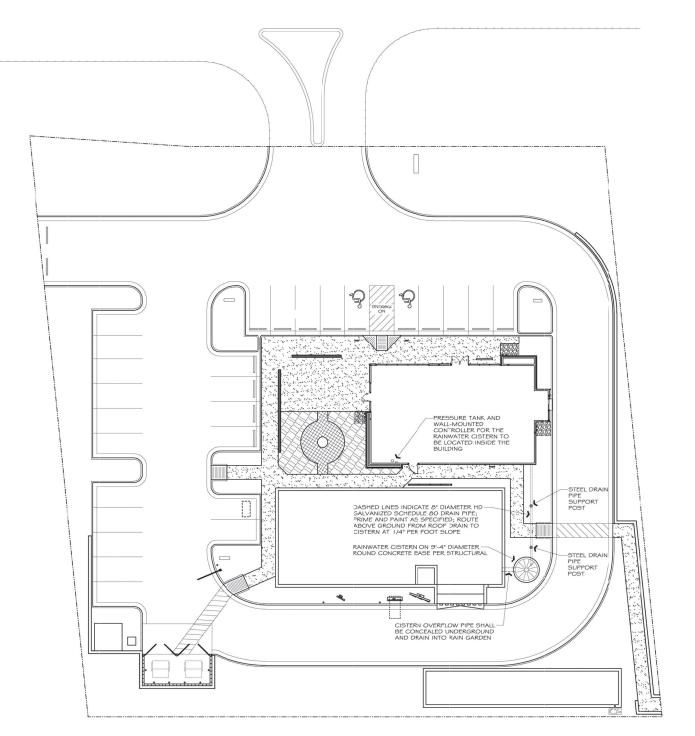
REVISIONS

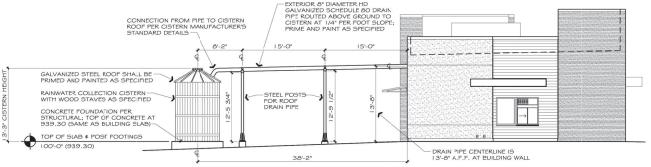


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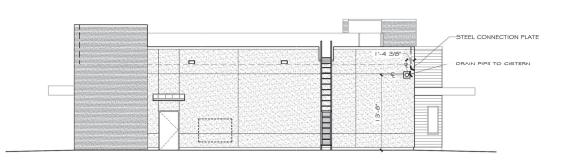
COLORED ELEVATIONS





# 2 EAST ELEVATION

SCALE: 1/8" = 1'-0"

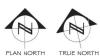


# 3 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

# 1 ARCHITECTURAL SITE PLAN

SCALE: 1/16" = 1'-0"



NOTES:

RAINWATER CISTERN SHALL BE &-O\* DIAMETER TIMBERTANK WITH WOOD STAVES BY WATER STORAGE TANKS, INC.; https://waterstoragetanksinc.com/CONTACT BRITTANY AT SPECIFIED WATER SYSTEMS (\$1 2) 962-0954 brittany@specwater.com

THE WATER, STORASE TANK SHALL BE A CORGAL MODEL 0803-WT-C-IR WITH STANDARD 30 DEGREE CORRUGATED METAL ROOF HAVING A NOMINAL CAPACITY 0 4,000 GALLONS; NOMINAL TANK DIMENISIONS SHALL BE 8'-0" DIMETER, 10">-9" EAVE HEIGHT, 13"-3" OVERALL HEIGHT.

CISTERN OVERFLOW PIPE SHALL BE COVICEALED UNDERGROUND AND DRAIN INTO RAIN GARDEN; CISTERN GALVANIZED STEEL ROOF SHALL BE PRIMED AND PAINT AS SPECIFIED; CISTERN RAINWATER COLLECTION SYSTEM SHALL HAVE FILTER AND PUMP FOR IRRIGATION; INSTALL ALL COMPONENTS FOR A COMPLETE RAINWAT COLLECTION AND IRRIGATION SYSTEM PER MANUFACTURER'S RECOMMENDED DETAILS.

IRRIGATION SYSTEM - FURNISH AND INSTALL IRRIGATION SYSTEM IN COMPLIANCE WITH LOCAL REGLIATIONS, IRRIGATION SYSTEM SHALL BE TYPE DRIP OR MICRO SPRAY WITH WEATHER AND SOIL MOISTURE SENSOR AND SMRT LOGIC INTERNET COMPATIBLE. SYSTEM DESION SHALL MAXIMIZE DELIVERY OF WATER TO PLANT AREAS, INCLUDING FLANTERS, WHILE MINIMIZING OVER-SPRAY, RUNOFF AND CUSTOMER DISPLIPTION. CONTROLS SHALL BE SETT OR UNA TO PTIMAL IMBES, EASL MORNING AND EVENING, TO MINIMIZE EVAPORATION LOSS AND BUSINESS HOURS DISPLIPTION. IRRIGATION SYSTEM SHALL BE SFRARATELY METERED AND INCLUD AN INTEGRAL BACKFLOW PREVENTION DEVICE. VAULT TYPE CONTROL AND VALVES ARE PREFEDRED AND MUST BE ACCESSIBLE BY TENANT.

THE WATER STORAGE TANK WILL BE MONITORED AND CONTROLLED BY THE INTELLITANK APP AND WIRELESS TANK MONITORING SYSTEM BY WELLSENSE TECHNOLOGIES. https://www.intell-tank.com/

IROPLAN CHITECTS

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4942 HWY 290 W AUSTIN, TEXAS 78735

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W. Highway 7

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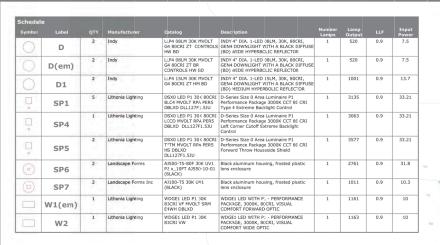


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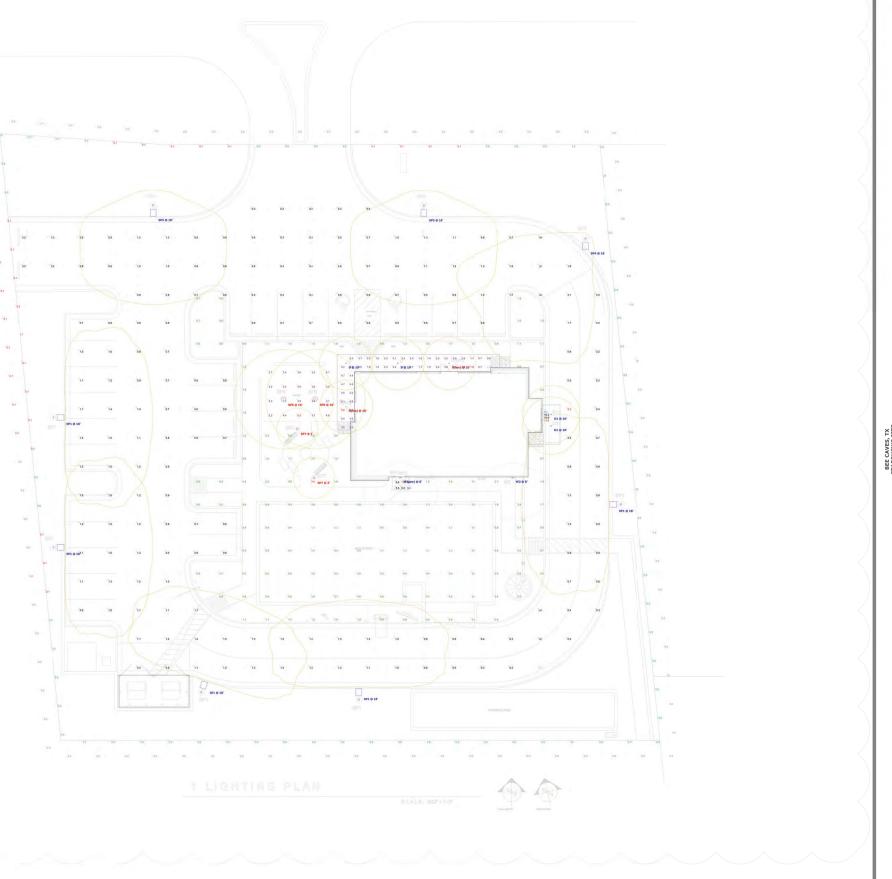
A3 34 OF 41



Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
Bldg. Entrances	+	3.1 fc	5.8 fc	0.5 fc	11.6:1	6.2:1	
Bldg. Perimeter Site	+	1.1 fc	9.0 fc	0.3 fc	30.0:1	3.7:1	
Drive Thru Cashier Window	+	10.4 fc	11.2 fc	9.2 fc	1.2:1	1.1:1	
Parking / Drive	+	0.9 fc	5.5 fc	0.1 fc	55.0:1	9.0:1	
Patio Area	+	3.6 fc	6.5 fc	1.5 fc	4.3:1	2.4:1	
Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A	
Service Door	+	6.2 fc	7.4 fc	5.3 fc	1.4:1	1.2:1	
5' Offset Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A	

#### SITE LIGHTING NOTES:

- 1). This site is zoned MU-N and is classified as IES Lighting Zone 2 which allows for a total site lumen limit of 2.5 lumens per square foot of hardscape using the Hardscape Area Method of the Prescriptive Method of Regulatory Compliance. 14,739 s.f. of hardscape x 2.5 lumens plus an additional allowance of 4,000 lumens for the drive-up window per section 6.2.9.C.2 equals an allowable lumen level of 40,847. This site is in lumen compliance with a total of 39,962.34 lumens."
- 2). Photocells shall be provided that automatically extinguish all outdoor lighting when sufficient daylight is available. A timer shall be provided to reduce the total outdoor lighting lumens by at least thirty percent (30%) from one (1) hour after business closing to one (1) hour before business opening.
- 3). The illuminated drive-thru sign will require a separate permit.
- 4). Lighting photometric calculations are an estimate of light leve Site conditions may alter the levels indicated on this plan.
- Light fixture symbols are diagramatic and shown for clarity. Refer to the fixture cut sheets for actual fixture dimensions and more detailed information.



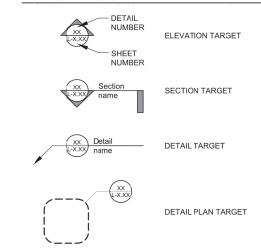
Plan View Scale · 1" = 10ft

#### **ABBREVIATIONS**

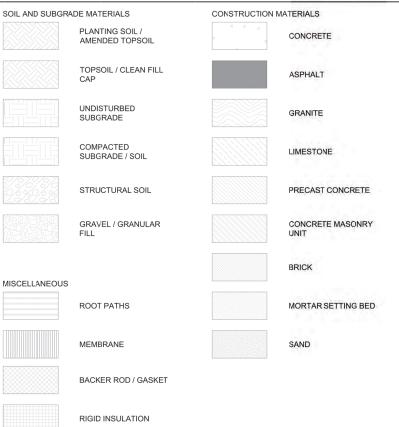
&         And         MACH Material Materia				
AD         Arigaent Finished Floor         MECH Mechanical Method         Maximum Method           AFF         Above Finished Floor         MED Medium         Medium           ALS         Acyl C Latex Sealant         MFR         Manufacturer           ALUM         Aluminum         MH         Manufacturer           ALUM         Aluminum         MH         Minimum           ANDO         Anothe Panel         MISC         Minimum           APPROX         Approximately         MO         Massonry Opening           APPROX         Approximately         MO         Massonry Opening           ARCH         Architectural         MTI         Metal           BB         Back to Back         NIC         No         No           BIF         Bitminous Joint Filler         NO         No         No           BLF         Blotten of Vall         OD         Overall           BLF         Blotten of Vall         OD         On Center           BRS         Bulyl Rubber Sealant         OC         On Center           GCC         Center to Center         OPP         Opposite           CIC         Center to Center         OPP         Opposite           CJC         <	&	And	MACH	Machine
ADJ         Adjacent Finish         MECH         Mechanical           AFF         Above Finished Floor         MED         Medium           ALLM         Aurylic Latex Sealant         MFR         Manufacturer           ALLM         Aurous         MIN         Min           ANDO         Anodzed         MIN         Min           APPROX         Approximately         MO         Mascany Opening           APPROX         Approximately         MO         Mascany Opening           ARCH         Archibectural         MIL         Mesian           BB         Back to Back         NIC         NO         Nombre           BC         Bottom of Cutal         NO         Nombre           BIK         Block (Wood Blocking)         NTS         Not To Scale           BRK         BILK         Block (Wood Blocking)         NTS         Not To Scale           BRK         Brock (Wood Blocking)         NTS         Not To Scale           BRK         Brock (Wood Blocking)         NTS         Not To Scale           BRS         Bulyl Rubber Sealant         OC         On Center           CCC         Center to Conter to Co		At	MATL	Material
AFF         Above Finished Floor         MED         Medium           ALS         Ayof Latex Sealant         MFR         Manufacturer           ALUM         Alumnum         MH         Manhole           APROX         Approximately         MISC         Miscellaneous           APPROX         Approximately         MISC         Miscellaneous           ARCH         Architectural         MIT         Metal           BE         Back of Back         NIC         No         Namer           BC         Bottom of Curb         NO         Number           BLK         Block Wood Blocking)         NTS         No         Number           BLK         Block Wood Blocking)         NTS         Not To Scale           BMT         Bulyimselic Taps Sealant         OC         Oc Center           BRS         Bulyi Rubber Sealant         OC         On Center           BRS         Bulyi Rubber Sealant         OD         Outsice Dianeter           CL	AD	Area Drain	MAX	Maximum
ALS         Acrylc Latex Sealant         MFR         Manufacturer           ALUM         Auminum         MH         Manhole           APP         Access Panel         MISC         Miscellaneous           APPROX         Approximately         MD         Miscellaneous           ARCH         Architectural         MTL         Metal           BB         Back to Back         NIC         Not in Contract           BC         Bottom of Curth         NO         Number           BLK         Block (Wood Blocking)         NTS         Not in Contract           BLK         Block (Wood Blocking)         NTS         Not in Contract           BR         Bitch         Bock (Wood Blocking)         NTS         Not in Contract           BR         Bitch         Act in Contract         On Contract           BR         Bitch         On Octated         Opposite           CC         Conter to Center         Opposite         Opposite           CG         Catch Lasian         OPPP         Opposite           CJ         Cold Joint         PA         Palanting Area           CJ         Cork Joint Filler         PC         PC         Pool Coping           CJ	ADJ	Adjacent Finish	MECH	Mechanical
ALUM				
ANODE   APPROX   Approximately   APPROX   APPR				
APPROX         Access Panel         MISC         Miscellaneous           APPROX         Approximately         MC         Masony Opening           ARCH         Architectural         MTL         Metal           B-B         Back to Back         NIC         No         Not in Contract           BJF         Bituminous Joint Filler         NOM         Nomman         Not in Contract           BJF         Blck (Wood Blocking)         NTS         Not To Scale           BMT         Butymastic Tape Sealant         DO         Overall           BMS         Butymastic Tape Sealant         DO         Outside Diameter           BMS         Butymastic Tape Sealant         DO         Outside Diameter           BMS         Butymastic Tape Sealant         DO         Outside Diameter           CCC         Center to Center         OPPO         Opposite           CCC         Center to Center         OPPO         Opposite           CJC         Codd Joint         PA         Planting Area           CJF         Cxi Joint Filler         PC         PC         Porting Area           CJF         Cxi Joint Filler         PC         PC         Porting Area           CLR         Clar Opening				
APPROX ARCH         Approximately         MO         Masonry Opening           ARCH         Archiectural         MTL         Metal           B-B         Back to Back         NIC         Not in Contract           BC         Bottom of Curb         NO         Number           BLK         Block (Wood Blocking)         NTS         Not To Scale           BMT         Bulymastic Tape Sealant         OC         On Certal           BRS         Brick         OC         On Certal           BW         Botton of Wall         OD         OUside Diameter           CC         Center to Center         OPP         Opposite           CB         Catch Basin         OL         Opposite           CJ         Cold Joint         PA         Planting Area           CJ         Cold Joint         PA         Planting Area <t< td=""><td></td><td></td><td></td><td></td></t<>				
ABCH				
B-B Back to Back BC Botton of Curb BUF Biturnious Join Filler BUK Block (Wood Blocking) BMT Butylmastic Tape Sealant BRK Brick BRS Butyl Rubber Sealant BRS Butyl Rubber Sealant BW Botton of Wall  DD Outsice Diameter DW Botton of Wall  DD Outsice Diameter DPP Opposite Catch Basin  CL C Center to Center CB Catch Basin CL C Concrete Part Concrete CL Cold Joint Filler CD C Concrete Part Column CONC Concrete Part Column CONT Contractor CONT Contractor CONT Contractor CONU Concrete Masonry Unit Painted CONC Concrete Part Column CONU Concrete Masonry Unit Painted COL Column CONU Concrete Part Column CONU Concrete Part Column CONU Concrete Part Column CONU Concrete Part Column CONT Contractor CONT Contractor CONT Contractor CONT Contractor CONT Contractor CONT Contractor CONU Concrete Masonry Unit Painted CONU Concrete Masonry Unit Painted COL Column CONU Concrete Masonry Unit Painted COL Column CONU Concrete Masonry Unit Painted				
Bottom of Curb   Surfman	ARCH	Architectural	WIIL	Wetai
Bottom of Curb   Burninous Joint Filler   NOM Nomiral	B-B	Back to Back	NIC	Not In Contract
BIMT	ВС	Bottom of Curb		Number
BMT	BJF	Bituminous Joint Filler	NOM	Nominal
BRK         Brick         OA         Overall           BRS         Bulyl Rubber-Sealant         OC         On Center           BW         Bottom of Wall         OD         Outside Diameter           CC         Center to Center         OPP         Oppening           CB         Catch Basin         OPP         Opposite           CJF         Cork Joint Filler         PC         Pcol Coping           CL         Center Line         PC         Pool Coping           CL         Clear Opening         PERP         PcC         Pordland Cement Concrete           COL         Column         PLBG         Plumbing         Plumbing           CON         Concrete         PLBG         Plumbing         Plumbing           CONC         Concrete Painted         POB         Point of Beginning         Perpendicular           CONT         Construction         PR         PR         Prefabricated           CONT         Continuous         PSF         Prefabricated           CONT         Continuous         PSF         Prouncs Per Square Foot           CONT         Continuous         PSF         Pouncs Per Square Foot           CONT         Continuous         PSF <t< td=""><td>BLK</td><td>Block (Wood Blocking)</td><td>NTS</td><td>Not To Scale</td></t<>	BLK	Block (Wood Blocking)	NTS	Not To Scale
BRS				
Botion of Wall				
C/C				
CCC         Center to Center         OPP         Opposite           CB         Catch Basin         Panting Area           CJF         Cord. Joint Filler         PC         Pool Coping           CL         Center Line         PCC         Pool Coping           CL         Clear Opening         PERP         Perpendicular           COL         Column         PLBG         Plumbing           COL         Colour         PLBG         Plumbing           CONC         Concrete         PLWD         Plywood           CONT         Construction         PR         Print of Beginning           CONT         Contractor         PRFA         Prefabricated           CONT         Contracted Masonry Unit         PSF         Pouncs Per Square Fool           CMU         Concrete Masonry Unit Painted         2.PUMS         Polyurethane Sealant (Two Part)           CO         Clean Out         PTD         Pointed Finish         To Polyurathane Sealant (Two Part)           DF         Drinking Fountain         QTY         Quantity           DIA         Diameter         R         Radius           DIA         Diameter         R         Radius           DIA         Diameter	BW	Bottom of vvali		
CB         Catch Basin         PA         Planting Area           CJ         Cold Joint         PC         Pool Coping           CL         Center Line         PC         PC         Pool Coping           CL         Center Line         PC         PC         Pordland Cement Concrete           CLR         Clear Opening         PERP         Perpendicular           COL         Column         PLBG         Plumbing           CONC         Concreted         PLWD         Plywood           CONTC         Concreted         PLWD         Plywood           CONT         Contractor         PREFAB         Perfabricated           CONT         Contractor         PREFAB         Pouncs Per Square Foot           CMU         Contracted Masonry Unit         PSI         Pounce Per Square Foot           CMU         Concrete Masonry Unit Painted         2-PLMS         Polywethane Sealant (Two Part)           DF         Drinking Fountain         QTY         Quantity           DIM         Dimester         R         Radius           DIM         Dimester         R         Radius           DIM         Dimester         R         Radius           DTL         Detail<	CIC	Conter to Conter		
CJJ         Cold Joint CJF CJF CJF CJF CJF CJF CJF CJF CJF CJF			OFF	Opposite
CJF         Cork Joint Filler         PC         Poct Coping         PCC         PCC Dordland Cement Concrete           CLR         Clear Opening         PERP         Perpendicular           COL         Column         PLBG         Plumbing           CONC         Concrete Painted         PDB         Plywood           CONTC         Concrete Painted         POB         Point of Beginning           CONT         Contractor         PREFAB         Paint of Beginning           CONTR         Contractor         PREFAB         Prefabricated           CONT         Contracted Masonry Unit         PSF         Pouncs Per Square Foot           CMU         Concrete Masonry Unit Painted         2-PUMS         Polyurestrane Sealant (Two Part)           CO         Clean Out         PTD         Painted Finish           DF         Drinking Fountain         QTY         Quantity           DI         Ductile Iron         DLA         Durst Per Square Inch           DI         Ductile Iron         R         R         Radius           DIM         Dimension         R         R         Radius           DIM         Dimension         R         R         Radius           DVB         Drawi			ΡΔ	Planting Area
CL         Center Line         PCC         Portland Cement Concrete           CLR         Clear Opening         PERPP         Perpendicular           COL         Column         PLBG         Plumbing           CONC         Concrete         PLWD         Plywood           CONST         Concrete Painted         POB         Point of Beginning           CONIT         Contractor         PREFAB         Prefabricated           CONIT         Contractor         PREFAB         Prefabricated           CONIT         Contracted Masonry Unit         PSI         Pouncs Per Square Foot           CONIT         Concrete Masonry Unit         PSI         Pouncs Per Square Foot           COV         Clean Out         PTD         Painted Finish           COV         Clean Out         PTD         Painted Finish           DIM         Dimester         R         Radius           DIM         Dimester         R         Radius           DIM         Dimession         RD         Roof Drain           DN         Down         REF         Reference           DWG         Drawing         REO'D         Required           EA         Each         REX         Revision				
CLR				
CONC         Concrete         PLWD         Plywood           CONCY         Construction         POB         Point of Beginning           CONTR         Construction         PR         Pair           CONTR         Contractor         PREFAB         Prelabricated           CONT         Continuous         PSF         Pounce Per Square Foot           CONT         Concrete Masonry Unit         PSF         Pounce Per Square Foot           CMU         Concrete Masonry Unit Painted         2-PUMS         Polyure brained           CO         Clean Out         PTD         Painted Finish           DI         Ductile Iron         Ductile Iron         Pinishing Fountain         QTY         Quantity           DI         Ductile Iron         PD         Rod Grading Fountain         RD         Rod Grading Fountain           DI         Ductile Iron         RD         Rod Grading Fountain         RD         Rod Grading Fountain           DN         Down         REF         Reference         REV         Revision           DT         Detail         REV         Revision         Required           EA         Each         Each Construction         RD         Rough Opening           EFT	CLR	Clear Opening	PERP	
CONCP CONST CONTR C	COL	Column	PLBG	Plumbing
CONST Construction PREFAB Pair CONTR Contractor PREFAB Prefabricated PREFAB Prefabricated Pouncs Per Square Foot POUNCE PREFAB Prefabricated Pouncs Per Square Foot POUNCE PREFAB Pounce Per Square Foot Pounce Per Square Inch Pounce Inch Pounce Per Square Inch Pounce Per Square Inch Pounce Inch Poun				
CONTR CONTRACTOR         Contractor CONT Continuous         PSF Pouncs Per Square Foot Pouncs Per Square Foot Pounce Per Square Inch Pounce Per Square Per Square Inch Pounce Per Square Per Square Inch Pounce Per Square Inch Pounce Per Square Per Squa				
CONTIT         Continuous         PSF         Pouncs Per Square Foot           CMU         Concrete Masonry Unit         PSI         Pounce Per Square Inch           CMU         Concrete Masonry Unit Painted         2-PUMS         Polyurethane Sealant (Two Part)           DF         Drinking Fountain         QTY         Quantity           DI         Ductie Iron         R         Radius           DIM         Dimension         RD         Roof Drain           DN         Down         REF         Reference           DN         Down         REF         Reference           DWG         Drawing         REZO         Required           EA         Each         REV         Revision           EC         Exposed Construction         RO         Rough Opening           ECP         Exposed Construction Painted         SE         Steel Edge           ETTS         Expanding Foam Tape Sealant         SE         Steel Edge           ECP         Exposed Construction         SE         Steel Edge           ETTS         Expansion Joint         SHT         Sheet           EL         Elevation         SE         Steel Edge           EX         Existing         SPEC<				
CMUP Concrete Masonry Unit Painted 2PUMS Polyurethane Sealant (Two Part) PTD Painted Finish Pour Painted Co Concrete Masonry Unit Painted 2PUMS Polyurethane Sealant (Two Part) PTD Painted Finish PTD Painted PTD PAInted PTD PAInted PTD PAInted PTD PAInted PTD PAInted				
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CO Clean Out PTD Painted Finish  DF Drinking Fountain DI Ductie Iron DIA Diameter DIM Dimension DN Down REF Reference DTL Detail DWG Drawing REQT Required REV Revision RO Rough Opening ECP Exposed Construction Painted EE Expanding Foam Tape Sealant EL Elevation EJ Expansion Joint EQ Equal EX Existing SQ Square FFE Finished Floor Elevation FG Finished Grade ST Sealant Tape GALV Galvanized GB Glazed Block GC General Contractor GC General Contractor GRND Ground G Gutter HDW Hardware HNCG Hollow Neoprene Compression Gasket HP High Point HP High Point HR Hours HOW Insulation INSUL Insulation INSU Campans In Maintain Radius Radius RA Gaigus REF Reference REA Radius Radius Radius REGIN Reinforced REF Reference REF Reference REF Reference REF Reference REGIN Redius REGIN Reinforced REGY Revision REF Reference REGIN Reinforced REGY Revision REGY Revision REFY Revision REFY Revision REGY Rev				
DF Drinking Fountain DI Ductie Iron DIA Diameter DIM Dimension DN Down DN Down DTL Detail DWG Drawing  EA Each EACH EC Exposed Construction ECP Exposed Construction Painted EFTS Expanding Foam Tape Sealant EL Elevation EX Existing EX				
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DIA         Diameter DIM         Dimension         RD         Roof Drain           DN         Down         REF         Reference           DTL         Detail         REINF         Reinfcroed           DWG         Drawing         REQOD         Required           EA         Each         REV         Revision           EC         Exposed Construction         RO         Rough Opening           ECP         Exposed Construction Painted         SECT         Section           EFTS         Expanding Form Tape Sealant         SE         Steel Edge           EL         Elevation         SHT         Section           EJ         Expansion Joint         SHT         Sheet           EQ         Equal         SIM         Similar           EX         Existing         SPEC         Specification           SQ         Square         ST         Specification           FFE         Finished Floor Elevation         SS         Stainless Steel           FG         Finished Floor Elevation         SS         Stainless Steel           GALV         Galuare         STD         Standard           GALV         Galuare         ST         Standard </td <td>DF</td> <td>Drinking Fountain</td> <td>QTY</td> <td>Quantity</td>	DF	Drinking Fountain	QTY	Quantity
DIM	DI	Ductile Iron		
DN Down DTL Detail DWG Drawing REQD Required REV Revision REA Each RE Exposed Construction REC Exposed Construction Painted REFT Reference REV Revision RO Rough Opening REFTS Expanding Form Tape Sealant EL Elevation EJ Expansion Joint EQ Equal SIM Similar EX Existing SPEC Specification SQ Square FFE Finished Floor Elevation FG Finished Grade ST Sealant Tape GAL Galvanized GB Glazed Block GC General Contractor GL Glass GRND Ground G Gutter HDW Hardware HNCG Hollow Neoprene Compression Gasket HNCG Hollow Metal HM Hollow HM Hollow HM Hollow HM Hollow HM HM Hollow HM	DIA			
DTL DWG         Detail Drawing         REINF REV Required REV Required         Required Required           EA         Each EC         Exposed Construction         RM         Room           ECP         Exposed Construction Painted         EFTS         Expanding Foam Tape Sealant         SE         Steel Edge           EL         Elevation         SECT         Secton         Secton           EJ         Expansion Joint         SHT         Sheet           EQ         Equal         SIM         Similar           EX         Existing         SPEC         Specification           FE         Finished Floor Elevation         SS         Stainless Steel           FG         Finished Grade         SRS         Silicone Rubber Sealant           FG         Finished Grade         SRS         Silicone Rubber Sealant           FG         Finished Grade         STD         Standard           GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GRND         Ground         T				
DWG				
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EC         Exposed Construction Painted           ECP         Exposed Construction Painted           EFTS         Expanding Foam Tape Sealant         SE         Steel Edge           EL         Elevation         SECT         Section           EJ         Expansion Joint         SHT         Sheet           EQ         Equal         SIM         Similar           EX         Existing         SPEC         Specification           FE         Enished Floor Elevation         SS         Stalnless Steel           FG         Finished Grade         SRS         Silicone Rubber Sealant           FG         Finished Grade         SRS         Silicone Rubber Sealant           GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STD         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         To Tread           G         Gutter         T         Tread           HOK         Hollow Neoprene Compression Gasket         TEL	ΕΛ	Each		
ECP				
EFTS         Expanding Foam Tape Sealant         SE         Steel Edge           EL         Elevertion         SECT         Section           EJ         Expansion Joint         SHT         Sheet           EQ         Equal         SIM         Similar           EX         Existing         SPEC         Specification           SQ         Square         SPEC         Specification           FFE         Finished Floor Elevation         SS         Stainless Steel           FG         Finished Grade         SRS         Silicone Rubber Sealant           FF         Finished Grade         SRS         Silicone Rubber Sealant           FS         Sealant Tape         SRS         Silicone Rubber Sealant           STD         Standard         Steel         Storage           GALV         Galvanized         STD         Standard           GE         Gen			NO	Rough opening
EL         Elevation         SECT         Section           EJ         Expansion Joint         SHT         Sheet           EQ         Equal         SIM         Similar           EX         Existing         SPEC         Specification           FFE         Finished Floor Elevation         SS         Square           FFE         Finished Grade         SRS         Silicone Rubber Sealant           FG         Finished Grade         SRS         Silicone Rubber Sealant           GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Tread           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Curb           HM         Hollow Metal         THK         Thick           HP			SE	Steel Edge
EQ         Equal Existing         SPEC Specification Specif			SECT	
EX         Existing         SPEC Square Squar	EJ	Expansion Joint	SHT	
SQ				
FFE         Finished Floor Elevation         SS         Stainless Steel           FG         Finished Grade         SRS         Silicone Rubber Sealant           GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Tread           HDW         Hardware         TC         Top of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Frame           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Curb           HR         Hours         TP         Top of Step           TT         Traffic Topping         Traffic Topping           IV         Invert         TW         Top of Step           ID         Inside Diameter	EX	Existing		
Fig.   Finished Grade   SRS   Silicone Rubber Sealant ST   Sealant Tape				
GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Top Of           HDW         Hardware         TC         Top Of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Curb           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Curb           HR         Hours         TP         Top of Curb           HR         Hours         TP         Top of Curb           HT         TR         Top of Curb           HR         Hours         TP         Top of Curb           HT         TW         Top of Curb           HT         TY         Top of Step           TT         Traffic Toppin				
GA         Gauge         STD         Standard           GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           GUtter         TO         Top Of           HDW         Hardware         TC         Top of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Curb           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Curb           HR         Hours         TP         Top of Curb           HR         Hours         TP         Top of Step           TT         Traffic Topping         Traffic Topping           IV         Invert         TW         Top of Wall           ID         Inside Diameter         TYP         Typical           IN         Inch         UNO         Unless Noted Otherwise	FG	Finished Grade		
GALV         Galvanized         STL         Steel           GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Top of           HDW         Hardware         TC         Top of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Curb           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Curb           HR         Hours         TP         Top of Pavement           HT         Height         TS         Top of Step           TT         Traffic Topping         TY         Typical           IV         Inverl         TW         Top of Wall         Typical           ID         Inside Diameter         TYP         Typical         Typical           INFO         Information         Insulation         VERT         Vertical	GΔ	Gaune		
GB         Glazed Block         STOR         Storage           GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Trop Of           HDW         Hardware         TC         Top of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Frame           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Frame           HM         Hours         TP         Top of Curb           HR         ThK         Thick         ThK         Thick           HT         ThK         Thick				
GC         General Contractor         STRUCT         Structural           GL         Glass         SUSP         Suspended           GRND         Ground         T         Tread           G         Gutter         T         Top Of           HDW         Hardware         TC         Top of Curb           HNCG         Hollow Neoprene Compression Gasket         TEL         Telephone           HORIZ         Horizontal         TF         Top of Frame           HM         Hollow Metal         THK         Thick           HP         High Point         TC         Top of Curb           HR         Hours         TP         Top of Curb           HR         Hours         TP         Top of Curb           HR         Hours         TP         Top of Step           TT         Traffic Topping         Traffic Topping           IV         Invert         TW         Top of Wall           ID         Inside Diameter         TYP         Typical           INFO         Information         UNO         Unless Noted Otherwise           INFO         Insulation         VERT         Vertical           INT         Interior         VIF </td <td></td> <td></td> <td></td> <td></td>				
GL   Glass   Ground				
GRND   Ground   T   Tread   T   Tread   T   Top Of				
HDW	GRND	Ground		•
HDW	G	Gutter		
HNCG	LIDV	Headures		
HORIZ				
HM				
HP				
HR				
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V				
IV		<b>~</b> -		
ID	IV	Invert		
NLET			TYP	
INFO			,	
Insulation   VERT   Vertical			UNO	Unless Noted Otherwise
INT         Interior         VIF         Verify in Field           LAM         Laminated         W/         With           LBS, #         Pounds         W/O         Without           LP         Low Point         WC         Water Closet           WD         Wood			\/EDT	Ventical
LAM         Laminated         W/         Without           LBS, #         Pounds         W/O         Without           LP         Low Point         WC         Water Closet           WD         Wood				
LBS, #         Pounds         W/O         Without           LP         Low Point         WC         Water Closet           WD         Wood			V 11	TOTAL TITLE
LP Low Point WC Water Closet WD Wood				
WD Wood				
	LP	Low Point		
WP Work Point				
WPR Waterproofing				

Weight

### **ANNOTATIONS**



#### MATERIAL SYMBOLS - DETAILS AND SECTIONS



### GENERAL NOTES:

- 1.) Locate and verify the condition of existing utilities prior to excavation. Take responsibility of contacting line location services and any cost incurred for bodily injury and / or damage of owner's property or said utilities
- 2.) The landscape architect shall be notified by the contractor of any discrepancies discovered between the contract documents and actual site conditions before proceeding with the work. The contractor shall be liable for all modifications and damages if work proceeds without this notification.
- 3.) The contractor is responsible for all aspects of maintaining a safe work site including, but not limited to, providing for traffic control, installation and placement of fencing and barricades, excavation and trench protection, and compliance with all federal and local regulations and codes. All safety exposures or violations shall be rectified immediately
- 4.) The contractor is responsible for protection of all existing improvements both on site and adjacent to the work site and shall repair any damage to these improvements to the satisfaction of the owner.
- The contractor shall notify the owner and the landscape architect 48 hours prior to commencement of work to coordinate project inspection schedules
- Any alternates and or substitutions proposed by the contractor shall be submitted to the landscape architect for approval. Changes to the scope of work and / or contract documents resulting from the acceptance of the contractor's alternates and / or substitutions shall be the responsibility of the contractor.
- 7.) The contractor is responsible for removal of trash on a daily basis.
- The contractor shall comply with all applicable codes, regulations and ordinances. Prior to construction, all permits and approvals required for construction of the project shall be paid for and obtained by the contractor (plan review fees are paid by owner) costs for permits shall be included in the bid. It is the contractor's responsibility to become aware of required inspections that are associated with permits issued for the work and to schedule these inspections at the appropriate stage of construction. Examples include but are not limited to rough-in electrical, rough-in plumbing, irrigation piping, foundation steel for structures (including walls), fire inspections related to entry gates and associated structures any required special inspections and others as may apply.
- Coordinate work with subcontractors to accomplish the scope of work as shown and noted in the contract documents, as well as coordinate construction with other contractors working on the site.
- 10.) The contractor shall coordinate the storing of materials, parking of vehicles, and restrictions of work and access with the owner. Under no circumstances shall any contractor store materials, park vehicles or equipment under the canopy of
- 11.) Unless specified otherwise, the contractor is responsible for providing and paying all temporary utilities and services necessary to completely install all work as shown and noted in the contract documents
- 12.) The contractor is responsible for providing and servicing temporary toilet
- 13.) The contractor is responsible for the legal off-site disposal of surplus material and
- 14.) Upon completion of construction and prior to final approval, the contractor shall thoroughly clean the project site of all trash, repair all damage to finish grade, including tailings from excavations, wheel ruts and any settling or erosion that has occurred prior to completion. All areas of the project site shall be left in a neat and presentable condition satisfactory to the owner prior to submittal of the final payment.
- Contractor is responsible for providing and paying for all water and electricity required for construction. Owner will order and pay for permanent water and
- 16.) The contractor shall prepare & keep current, for the landscape architects' review, a schedule of submittals which is coordinated w/ the contractor's construction schedule and allows the landscape architect reasonable time to review submittals. Submittals include but are not limited to shop drawings, material selections, plant photos with measuring device included in image



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PREPARED FOR

## Investcor Development

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Architect Enviroplan Architects 4942 US 290 West Austin, TX, 78735 T 512.476.0622

## Starbucks Bee Cave

14211 W. Highway 71 Bee Cave, Texas 78738



		ISSUE March 13, 202
		REVISION
No	Date	Issue
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**GENERAL NOTES** 

SHEET TITLE

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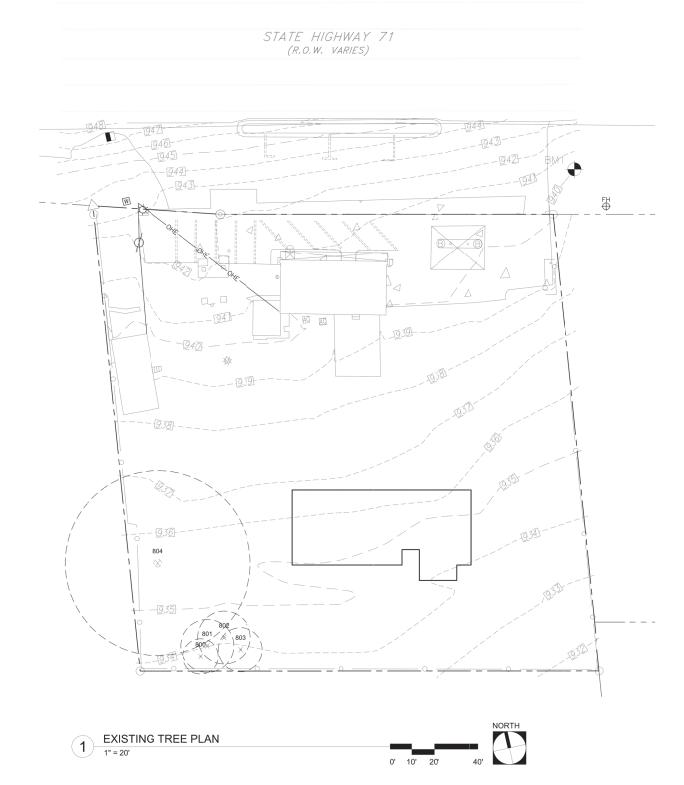
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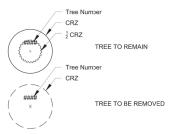
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EXISTING TREE PLAN

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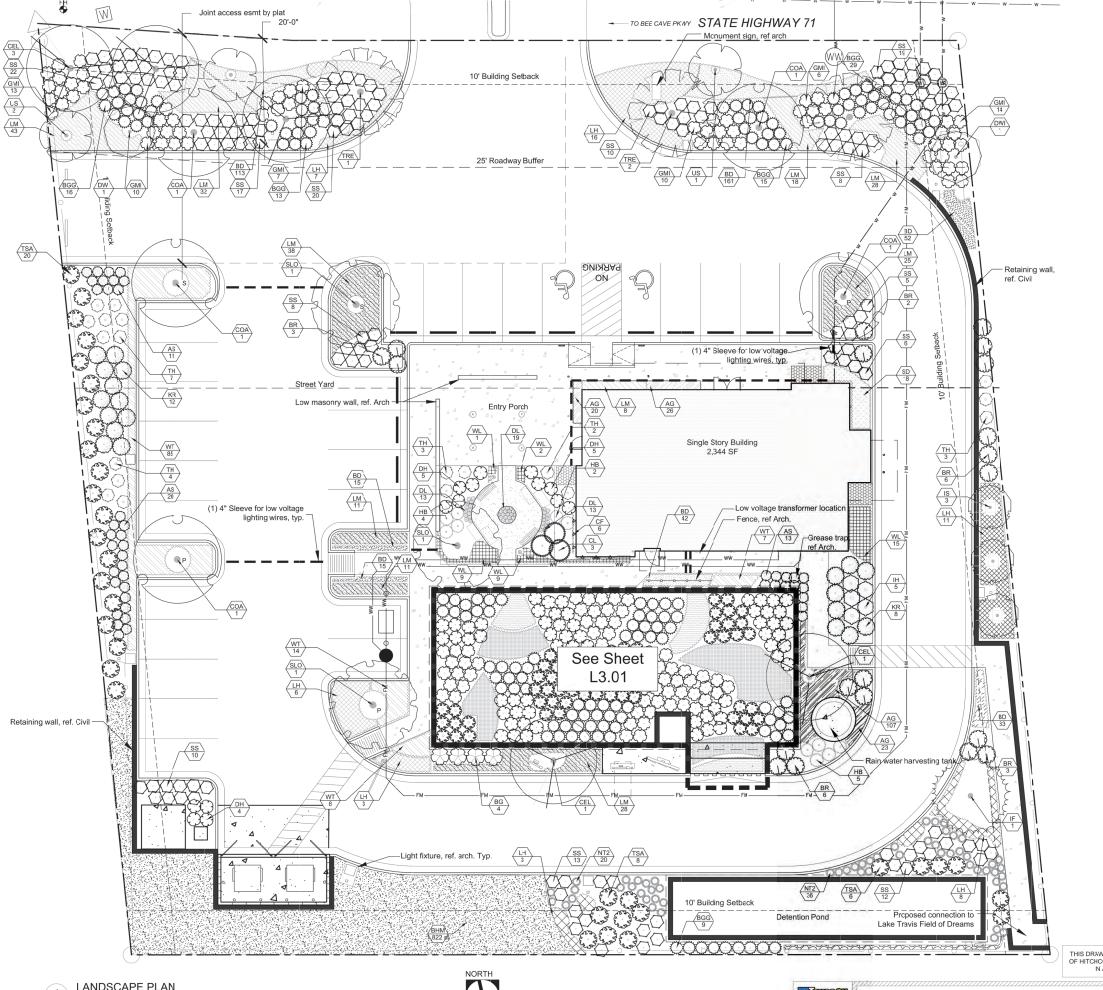
### EXISTING TREE LEGEND



#### EXISTING TREE SCHEDULE

/	ERITA S	ATT. TAG	* 10 R	EMOVE SPECIES	CAL 1	CAL 2
		800	X	Live Oak	8	
	x	801	X	Live Oak	9	6
		802	x	Live Oak	12	
		803	X	Live Oak	10	
	X	804	×	Cedar	42	

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PLANT LEGEND, REF. L3.03 FOR FULL SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME  Cercis canadensis 'texensis'
TRE	Texas Redbud
DWI	Chilopsis linearis Desert Willow
COA	Quercus muehlenbergii Chinkapin Oak
CEL	Ulmus crassifolia Cedar Elm
US	Ungnadia speciosa Mexican Buckeye
EVERGREEN TREES	BOTANICAL / COMMON NAME  Ilex x attenuata 'Fosteri'
	Foster's Holly  Ilex x attenuata 'Savannah'
IS	Savannah Holly
CL	Prunus caroliniana 'Monus' Bright 'N Tight Carolina Laurel Cherry
SLO	Quercus virginiana Southern Live Oak
DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME
FAC	Anisacanthus quadrifidus wrightii
	Flame Acanthus
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME
CF	Ficus pumila Creeping Fig
DH	llex vomitoria `Nana` Dwarf Yaupon Holly
TSA	Leucophyllum frutescens Texas Sage
IH	Rhaphiolepis indica
BK	Indian Hawthorn  Rosmarinus officinalis 'Upright Blue' Lloright Blue Rosemary
SS	Upright Blue Rosemary Scutellaria suffrutescens
BG	Pink Skullcap Teucrium fruticans 'Azureum'
BG	Azure Bush Germander
ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
BGG	Bouteloua gracilis 'Blonde Ambition' Blonde Ambition Blue Grama Grass
NT2	Nassella tenuissima Mexican Feather Grass
PERENNIALS GMI	BOTANICAL / COMMON NAME Conoclinium greggii
	Gregg's Mistflower  Hemerocallis x 'Stella de Oro'
DL	Stella de Oro Daylily
НВ	Nandina domestica 'Firepower' Firepower Heavenly Bamboo
KR	Rosa x `Radrazz` TM Knock Out Shrub Rose
AS	Salvia greggii Autumn Sage
SEMI-EVERGREEN SHRUBS	BOTANICAL / COMMON NAME Thryallis glauca
ТН	Thryallis
EVERGREEN GROUNDCOVER	BOTANICAL / COMMON NAME
SD	Dichondra argentea Silver Dichondra
LM	Liriope muscari Lilyturf
BD	Melampodium leucanthum Blackfoot Daisy
AG	Ophiopogon intermedius
	Aztec Grass
NATIVE SEED MIX	BOTANICAL / COMMON NAME
ВНМ	Bee Happy Mix Native American Seed
ORNAMENTAL GRASS	BOTANICAL / COMMON NAME
TSE	Carex texensis Texas Sedge
	rexas Seage
PERENNIAL GROUNDCOVER	BOTANICAL / COMMON NAME
WT	Stemodia lanata Gray Woolly Twintip
SEMI-EVERGREEN GROUNDCOVER	BOTANICAL / COMMON NAME
OLIVII-L VLINGINEEN GROUNDCOVER	Lantana montevidensis 'Alba'
WL	White Trailing Lantara

Proposed Street Yard Tree

Proposed Parking Tree

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## Starbucks Bee Cave

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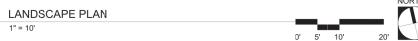
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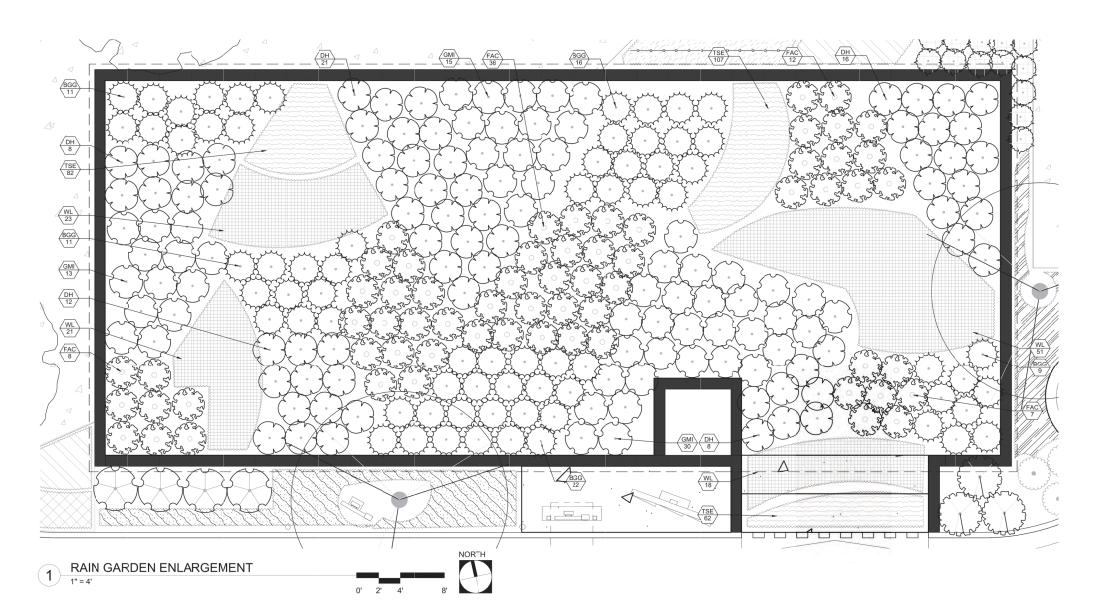
LANDSCAPE PLAN

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SHEET NUMBER 38 OF







## PLANT LEGEND, REF. L3.03 FOR FULL SCHEDULE

DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME
FAC	Anisacanthus quadrifidus wrightii Flame Acanthus
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME
DH	llex vomitoria 'Nana' Dwarf Yaupon Holly
ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME
BGG	Bouteloua gracilis 'Blonde Ambition Blonde Ambition Blue Grama Gras
PERENNIALS	BOTANICAL / COMMON NAME
GMI	Conoclinium greggii Gregg's Mistflower
ORNAMENTAL GRASS	BOTANICAL / COMMON NAME
TSE	Carex texensis Texas Sedge
SEMI-EVERGREEN GROUNDCOVER	BOTANICAL / COMMON NAME
WL	Lantana montevidensis 'Alba' White Trailing Lantana

Filtration Basin 2714 sq. ft. x 0.20 = 543 plants required							
Plant	Size	Spacing	Quantity	1 gallon equivalent			
Flame Acanthus	5 Gal	36" O.C.	63	252			
Dwarf Yaupon Holly	5 Gal	36" O.C.	65	260			
Blonde Ambition Blue Grama Grass	5 Gal	36" O.C.	69	276			
Gregg's Mistflower	5 Gal	24" O.C.	59	236			
Texas Sedge	1 Gal	24" O.C.	251	251			
White Trailing Lantana	3 Gal	48" O.C.	113	226			
			TOTAL	1501			



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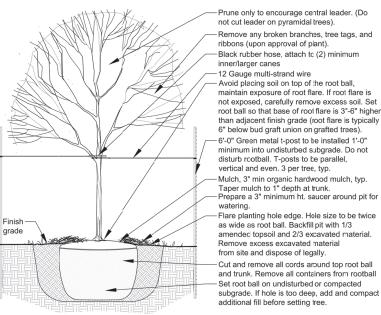


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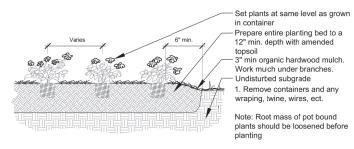
LANDSCAPE PLAN

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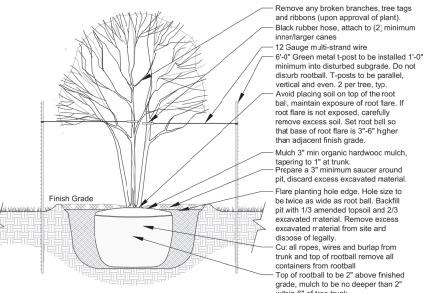
SHEET NUMBER 39 OF



SHADE TREE



PERENNIAL PLANTING



- Mulch 3" min organic hardwood mulch, tapering to 1" at trunk.
- Prepare a 3" minimum saucer around pit, discard excess excavated material. Flare planting hole edge. Hole size to pit with 1/3 amended topsoil and 2/3 excavated material. Remove excess excavated material from site and dispose of legally.

- Cut all ropes, wires and burlap from trunk and top of rootball remove all

Top of rootball to be 2" above finished grade, mulch to be no deeper than 2" within 6" of tree trunk

Limit pruning to dead and broken Set top of rootball at the 1" above finished grade - Mulch, 3" min organic hardwood mulch, typ. Taper mulch to 1" depth at trunk. Where noted, use 3" of gravel in place of mulch Prepare a 3" min. saucer around pit if shrub is a solitary planting. For multiple plantings in the same bed, prepare shrub bed so that finish grade between shrubs provides positive drainage. Discard excess excavated material Remove containers Finish Grade Backfill pit with 1/3 amended topsoil and 2/3 excavated material. Set rootball on undisturbed subgrade. 2X ROOTBALL WIDTH

SHRUB PLANTING

Plant spacings vary per plant type. Ref. plant

TRIANGULAR PLANT SPACING



Starbucks Bee Cave

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PREPARED FOR

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CONSULTANTS Civil Engineer

Miller Gray 7320 N Mopac Expy Suite 203 Austin, TX, 78731 T 512.861.5300 Architect

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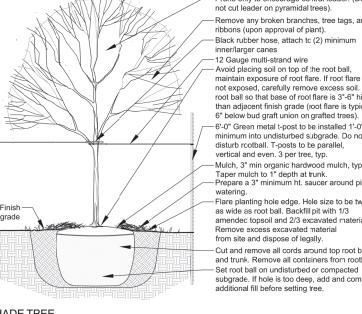
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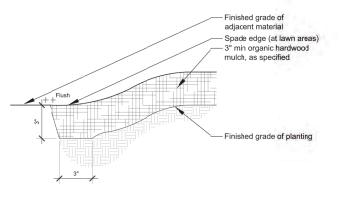
PLANTING DETAILS

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ORNAMENTAL TREE PLANTING

MULCH TRENCH

NOTE: BEWARE: UNDERGROUND UTILITIES IN PLACE INCLUDING ELECTRICAL, GAS, WATER, SEWER, TELEPHONE, AND OTHERS. CONSULT PROJECT ENGINEER PRIOR TO CONSTRUCTION. ALL UTILITIES TO BE FLAGGED AND IDENTIFIED. LANDSCAPE CONTRACTOR RESPONSIBILITY.

#### PLANTING NOTES

- Contractor shall receive site at approximately final grade. Any exceptions will be documented in the construction documents. The landscape will be documented in the construction documents. The landscape contractor shall fill area around walls per typical wall section, plan, and landscape grading notes with backfill provided by contractor. All slopes shall be smooth and uniform with a maximum slope of 3:1 unless otherw noted. Tie into existing adjacent grades smoothly and fine grade for positive drainage and prevent water from standing. Cut swales to direct water cours, from all stackers and special light provided and standing the standing standing the standing standing the standing standing standing the standing stand water away from all structures and property lines and towards storm sewe inlets. Do not drain any water towards lots or easements. Final location and height of perms to be approved by Hitchcock Design Group (HDG) in the field. Provide a minimum of 8" of granular fill wrapped in filter fabric ehind walls and to a depth below weeps holes to allow for proper drainage
- Shrub Beds: Reference specification and details for planting requirements, materials, and execution, including plant pit dimensions and backfill requirements. Shrubs and groundcovers to be triangularly spaced (spacing per plans and plant list), Ryerson 3/16\* x\* stee degling (dark green) shall be installed to separate all beds from turf areas. Reference planting bed detail for drainage requirement of all beds occurring directly at the back of detail for drainage requirement of an beds occurring directly at the back of curb. Backfillal shrub pils with specified planting mix. Incorporate 5 lbs of 13-13-13 fertilizer per cubic yard of mix into all planting beds. All beds shall receive a minimum of 3" deep organic hardwood mulch.
- Tree Planting. Reference specifications and details for planting requirements, materials, and execution, including staking methods, plant pit dimensions, and backfill requirements. Guy all trees 4" in caliper and greater and stake all trees smaller than 4" in caliper unless machine moved. Stake all machine moved trees with three (3) metal "T" stakes per detail. Backfill all shrub pits with specified planting mix. Incorporate 5 lbs of 13-13-13 fertilizer per cubic yard of mix into all planting beds. All beds shall receive a minimum of 3" deep organic hardwood mulch.
- Machine Moved Trees: All trees to be machine moved directly from grower shall be approved by HDG prior to relocation. Coordinate tree pruning to balance root loss with HDG. Trees to be mecharically transplanted using tree spade allowing 9" rootball per caliper inch of tree. Set tree straight and plumb and fill any air spaces around tree with specified sand or sandy loam topsoil, water in to displace air pockets. Install 3' high water retention basin per specifications with 3" deep organic mulch and water spaded trees the day of transplanting.
- 5. Trees shall be located a minimum of 5'-0" from walls, overheads, walks. rees shall be located a minimum to 3-0 from wains, overheads, wains, dging, curbs and other trees within the project. If conflicts arise between ize of areas and plans, contractor to contact HDG for resolution. Failure o make such conflicts known to HDG may result in contractor's liability to
- 6. All plant materials shall be approved by HDG prior to installation. Final ocation of all plant material shall be subject to the approval of HDG. Contractor shall notify HDG 48 hours prior to commencement of work to
- 7. Lawn Installation: Prior to application of hydromulch, contractor shall apply Lawn installation: Prior to application of hydromition, contractor shall appoint contact herbicide (recommended mixture of Image and Roundup) to remove all existing weeds as necessary, scarify existing soil is specified depths. Remove all lumps, clods, trash, and stick greater than 1". Fine grade to provide positive drainage and smooth lawn areas and cut swale ssary to ensure no ponding of water. Lay specified sod strip along the back of curb and hydromulch per specifications within approximate limits shown on plans. Finished grade of lawn and planting areas to be minimum ½" below finished grade of adjacent pavement.

#### IRRIGATION NOTES

Automatic irrigation systems shall comply with TCEQ Chapter 344, as well as

- These requirements shall be noted on the Site Development Permit and shall be implemented as part of the landscape inspection:
- A, the system must provide a moisture level adequate to sustain growth of the plant materials:
- B. the system does not include spray irrigation on areas less than ten (10) feet wide such as medians, buffer strips, and parking lot islands);
- C. circuit remote control valves have adjustable flow controls;
- D. serviceable in-head check valves area adjacent to paved areas where elevation differences may cause low head drainage;
- E. a master valve installed on the discharge side of the backflow
- F. above-ground irrigation emission devices are set back at least six (6) inches from impervious surfaces;
- G. an automatic rain shut-off device shuts off the irrigation system automatically after more than a one-half inch (1/2") rainfall; and
- H. newly planted trees shall have permanent irrigation consisting of drip or
- The irrigation installer shall develop and provide an as-built design plan to the City at the time the final irrigation inspection is performed;
- A. unless fiscal security is provided to the City for the installation of the system, it must be operational at the time of the final landscape
- 3. The irrigation installer shall also provide exhibits to be permanently nstalled inside or attached to the irrigation controller, including:
- installed inside of adactives to the ingalion containing zone numbers, A. a laminated copy of the water budget containing zone numbers, precipitation rate, gallons per minute and the location of the isolation valve; and an as built plan.

#### SOIL CONDITIONING AND MULCHING

- A minimum of 3 inches of organic mulch shall be added in non-turf areas to the soil surface after planting.
- Non-porous material such as sheet plastic shall not be placed under the
- A minimum of 6" permeable soil, native or imported and meeting the requirements of Standard Specification 601S, shall be required for turf and landscaped areas.
- 4. Tree planting areas are to be provided with a minimum of 12 inches of Tree planting areas are to be provided with a minimum of 12 inches of friable native loam soil meeting the requirements of Standard Specification 601s. Planting in relatively undisturbed existing native soils is encouraged. Soil to a minimum depth of 12 irches is required within the entire landscape median or peninsula. All other planting areas must have a minimum soil depth of 12 inches within a radius of six feet from the tree trunk. Trees are not to be planted in caiche, soild rock, or, in soils whose texture has been compacted by construction equipment. Areas of compaction which have been subsequently amended with 12 inches of friable native soil are suitable for planting.

REMEDIAL TREE CARE NOTES AFRATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION

- 1. Preserved trees within the limits of construction may require soil aeration Preserved trees within the limits of construction may require soil aeration and supplemental nutrients. Soil and/or foliar analysis should be used to determine the need for suppemental nutrients. The City Arborist may require these analyses as part of a comprehensive tree care plan. Soil pH shall be considered when determining the fertilization composition as soil pH influences the tree's ability to uptake nutrients from the soil. If analyses indicate the need for supplemental nutrients, then humstefnutrient solutions with mycorrhizae components are highly recommended in addition, soil analysis must be needed to determine if recommended. In addition, soil analysis may be needed to determine it organic material or beneficial microorganisms are needed to improve soil organic material or beneficial microorganisms are needed to improve soil health. Materials and methods are to be approved by the City Arborist (512-974-1876) prior to application. The owner or general contractor shall select a fertilization contractor and ensure coordination with the City
- Pre-construction treatment should be applied in the appropriate season, ideally the season preceding the proposed construction. Minimally, areas to be treated include the entre critical root zone of trees as depicted on the City approved plans. Treatment should include, but not limited to, fertilization, soil treatment, mulching, and proper pruning.
- 3. Post-construction treatment should occur during final revegetation or as Post-construction treatment should occur during final revegetation or as determined by a qualified arborist after construction. Construction activities often result in a reduction in so I macro and micro pores and an increase in soil bulk density. To ameliorate the degraded soil conditions, aeration via water and/or air injected into the soil is needed or by other methods as approved by the City Arborist. The proposed nutrient mix recoffications and coil and/or foils make its results need to be provided to specifications and soil and/or foliar analysis results need to be provided to and approved by the City Arborist prior to application. Construction which will be completed in less than 90 days may use materials at 1/2 recommended rates. Alternative organic fertilizer materials are acceptable when approved by the City Arborist.

#### TREE & NATURAL AREA PROTECTION

- All trees and natural areas shown on plan to be preserved shall be protected during construction with temporary fencing.
   Protective fences shall be erected according to City of Bee Cave
- Standards for Tree Protection.
- 3. Projective fences shall be installed prior to the start of any site
- rouseuve lenice's stand be risidented prict to the stant of any site preparation work (clearing, grubbing or grading), and shall be maintained throughout all phases of the construction project. Erosion and sedimentation control barriers shall be installed or maintained in a manner which does not result in soil build-up within tree
- Protective fences shall surround the trees or group of trees, and will be located at the outermost limit of branches (drip line), for natural areas, protective fences shall follow the Limit of Construction line, in order to prevent the following:
- A. Soil compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials
- B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill), or trenching not reviewed and authorized by the City
- C. Wounds to exposed rocts, trunk or imbs by mechanical equipment;
- D. Other activities detrimental to trees such as chemical storage, cement truck cleaning, and fires. 6. Exceptions to installing fences at tree drip lines may be permitted in the
- A. Where there is to be an approved grade change, impermeable paying surface, tree well, or other such site development, erect the
- fence approximately 2 to 4 feet beyond the area disturbed B. Where permeable paving is to be installed within a tree's drip line, erect the fence at the outer limits of the permeable paving area (prior to site grading so that this area is graded separately prior to paving
- C. Where trees are close to proposed buildings, erect the fence to allow 6 to 10 feet of work space between the fence and the building
- D. Where there are severe space constraints due to tract size or other special requirements, contact the City Arborist to discuss alternatives.

Special Note: For the protection of natural areas, no exceptions to installing fences at the Limit of Construction line will be permitted.

- 7. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk, protect the trunk with strapped-on planking to a height of 8 ft (or to the limits of lower branching) in addition to the reduced fencing provided.

  8. Tress approved for removal shall be removed in a manner which does
- not impact trees to be preserved.
- not impact trees to be pressived.

  Any notos exposed by construction activity shall be pruned flush with the soil. Backfill root areas with good quality top soil as soon as possible. If exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
- 10. Any trenching required for the installation of landscape irrigation shall be
- placed as far from existing tree trunks as possible.

   No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any
- 12 Pruning to provide clearance for structures, vehicular traffic and
- 13. All finished pruning shall be done according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees available on request from the City
- 14. Deviations from the above notes may be considered ordinance violations if there is substantial non-compliance or if a tree sustains

#### SPECIAL CONSTRUCTION TECHNIQUES

- Prior to excavation within tree driplines or remoal of trees adjacent to other trees that are to remain, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to
- In critical root zone areas that cannot be protected during construction with fencing and where heavy vehicular traffic is anticipated, cover those areas with a minimum of 12 inches of organic mulch to minimize soil compaction. In areas with high soil plasticity Geotextile fabric, per standard specification 620S, should be placed under the mulch to prevent excessive mixing of soil and mulch. Additionally, material such as excessive mixing or soli and mixint. Additionally, interiors such as plywood and metal sheets, could be required by the City Arborist to minimize root impacts from heavy equipment. Once the project is completed, all materials should be removed, and the mulch should be
- 3. Perform all grading within critical root zone areas by hand or with small
- 4. Water all ress most heavily impacted by construction activities deeply once a wee during periods of hot, dry weather. Spray tree crowns with water periodically to reduce dust accumulation on the leaves.
- When installing concrete adjacent to the root zone of a tree, use a plastic vapor barrier behind the concrete to prohibit leaching of lime into the soil.

#### VERTICAL CLEARANCE NOTES

- All trees to be limbed up to provide a minimum vertical clearance of 80"
- 2. For all drive ways and internal circulations areas on site where fire department access is required, a minimum clearance of 14' (ft) is

HERT AN	ALTI-TRUE	1000	Trut SPECIES	CAL 1	CAL 2	CAL 3	CAL 4	CAL 5
	800	X	Live Oak	8				
x	801	x	Live Oak	9	6			
	802	X	Live Oak	12				
	803	x	Live Oak	10				
x	804	X	Cedar	42				
		Total ca	liper inch removed	87				

134.8 LF of street frontage	Req	Provided	
6 3" trees per 100 LF*	8	8	
3 4" trees per 100 LF*	4	4	
Total	12	12	

11,678 SF Total Street Yard	Req	Provided
20% landscape area	2336	1710
1 tree per 1,000 SF	2	2

Parking Lot Landscape		
7654 SF Parking Area	Reg	Provided
25% minimum shaded SF	1914	2826

Parking Area Shade	Calculation			
		Shaded Area	Quantity	Total SF
Quercus muhlenbergii	Chinquapin Oak	942	1	942
Quercus virginiana	Live Oak	942	2	1884
			total	2826

196 LF Building Perimeter			
Requi	red 980	SF	
112 LF Provid	ied 560	SF	57%
Alternative Compliance Pro	ovided* 579	SF	59%
1 tree per 1,000 S	f 1 require	ed 1 provide	ed

DECIDUOUS TREES	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT
TRE	Cercis canadensis `texensis` Texas Redbud	45 gal	3"-6" Cal.	12`
DWI	Chilopsis linearis Desert Willow	95 gal	3"	7` - 9`
COA	Quercus muehlenbergii Chinkapin Oak	100 gal	4"	16`
CEL	Ulmus crassifolia	100 gal	4"	16`
US	Cedar Elm Ungnadia speciosa	95 gal	3"	8, - 8,
	Mexican Buckeye		-	
EVERGREEN TREES	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT
IF	Ilex x attenuata 'Fosteri' Foster's Holly	30 gal	2" Cal.	7`
IS	Ilex x attenuata 'Savannah' Savannah Holly	45 gal	3"-6" Cal.	12`
CL	Prunus caroliniana 'Monus' Bright 'N Tight Carolina Laurel Cherry	30 gal	2" Cal.	7`
SLO	Quercus virginiana Southern Live Oak	100 gal	3"-4" Cal.	16`
DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPACING
FAC	Anisacanthus quadrifidus wrightii Flame Acanthus	5 gal	16"-18"	36" O.C.
	Tidino Acandias			
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME Ficus pumila	CONTAINER	HEIGHT	SPACING
CF	Creeping Fig	3 gal	10"	36" O.C.
DH	Ilex vomitoria `Nana` Dwarf Yaupon Holly	5 gal	48"	36" O.C.
TSA	Leucophyllum frutescens Texas Sage	7 gal	14"	48" O.C.
IH	Rhaphiolepis indica Indian Hawthorn	7 gal	14"	36" O.C.
BR	Rosmarinus officinalis 'Upright Blue' Upright Blue Rosemary	5 gal	12"	36" O.C.
SS	Scutellaria suffrutescens Pink Skullcap	1 gal	6"	36" O.C.
BG	Teucrium fruticans 'Azureum' Azure Bush Germander	5 gal	12"	48" O.C.
	Azure buen Germander			
ORNAMENTAL GRASSES	BOTANICAL / COMMON NAME  Bouteloua gracilis 'Blonde Ambition'	CONTAINER	HEIGHT	SPACING
BGG	Blonde Ambition Blue Grama Grass Nassella tenuissima	5 gal	36"	24" O.C.
NT2	Mexican Feather Grass	7 gal	14"	24" O.C.
PERENNIALS	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPACING
GMI	Conoclinium greggii Gregg's Mistflower	5 gal	24"	24" O.C.
DL	Hemerocallis x 'Stella de Oro' Stella de Oro Daylily	5 gal	12"	12" O.C.
НВ	Nandina domestica 'Firepower' Firepower Heavenly Bamboo	7 gal	14"	36" O.C.
KR	Rosa x `Radrazz` TM Knock Out Shrub Rose	10 gal	17"	48" O.C.
AS	Salvia greggii Autumn Sage	5 gal	12"	48" O.C.
	Addition Sage			
SEMI-EVERGREEN SHRUBS	BOTANICAL / COMMON NAME Thryallis glauca	CONTAINER	HEIGHT	SPACING
TH	Thryallis	15 gal	3,	36" O.C.
EVERGREEN GROUNDCOVER	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPACING
SD	Dichondra argentea Silver Dichondra	1 gal	6"	24" O.C.
LM	Liriope muscari Lilyturf	5 gal	12"	24" O.C.
BD	Melampodium leucanthum Blackfoot Daisy	3 gal	10"	12" O.C.
AG	Ophiopogon intermedius	3 gal	10"	12" O.C.
	Aztec Grass			
NATIVE SEED MIX	BOTANICAL / COMMON NAME  Bee Happy Mix	CONTAINER	HEIGHT	SPACING
BHM	Native American Seed	seed		
ORNAMENTAL GRASS	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPACING
TSE	Carex texensis Texas Sedge	1 gal	12"-15"	10" O.C.
PERENNIAL GROUNDCOVER WT	BOTANICAL / COMMON NAME Stemodia lanata	CONTAINER  1 gal	HEIGHT 6"	SPACING 24" O.C.
***	Gray Woolly Twintip	, 9w	0	24 0.0.
SEMI-EVERGREEN GROUNDCOVER		CONTAINER	HEIGHT	SPACING
WL	Lantana montevidensis 'Alba' White Trailing Lantana	3 gal	10"	24" O.C.
	Lantana x 'New Gold'	3 gal	10"	48" O.C.

PLANT SCHEDULE



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ISSUED March 13, 2024 REVISIONS

No	Date	Issue

CHECKED BY

DRAWN BY JB & MP

SHEET TITLE

**PLANTING NOTES & TABLES** 

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NOTE: BEWARE: UNDERGROUND UTILITIES IN PLACE INCLUDING ELECTRICAL, GAS, WATER, SEWER, TELEPHONE, AND OTHERS. CONSULT PROJECT ENGINEER PRIOR TO CONSTRUCTION. ALL UTILITIES TO BE FLAGGED AND IDENTIFIED. LANDSCAPE CONTRACTOR RESPONSIBILITY.

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## **EXHIBIT "B"**

## **QUEUING PLAN**

Figure 8: Queue Stacking Capacity

